FCC RADIO TEST REPORT

FCC ID	**:**	**A4RGQML3**
Equipment	**:**	**Phone**
Applicant	**:**	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Mar. 17, 2022 and testing was performed from Apr. 20, 2022 to Dec. 07, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR1O2843-17	01	Initial issue of report	Nov. 21, 2022
FR1O2843-17	02	1. Revise Ref Std. Clause, Carrier Frequency and Channel and Fundamental Power Spectral Density Measurement 2. Add Conducted Duty Cycle plots	Dec. 07, 2022
FR1O2843-17	03	Revise Appendix A	Dec. 22, 2022
FR1O2843-17	04	Revise Appendix A	Feb. 23, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(7)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(7)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(7)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	-
3.6	15.407(b)	Unwanted Emissions	Pass	2.52 dB under the limit at 5925.000 MHz
3.7	15.207	AC Conducted Emission	Pass	21.28 dB under the limit at 1.484 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Remark: Except Conducted and Unwanted Emissions test items are carrying out, the FR1O2843-17 report reuses test data from the FR1O2843-05G report.

Declaration of Conformity:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
FCC ID	A4RGQML3
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS/ WPC/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
23031FDH20007N	Conducted Measurement
23121FDH20002A	Radiated Spurious Emission
23121FDH20005C	Conducted Emission
23031FDH20007U	Contention Based Protocol

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5925 MHz ~ 6425 MHz 6525 MHz ~ 6875 MHz
Maximum Output Power	**<5925 MHz ~ 6425 MHz>** **MIMO <Ant. 4+3>** 802.11a: 25.01 dBm / 0.3170 W 802.11ax HE20: 24.96 dBm / 0.3133 W 802.11ax HE40: 23.91 dBm / 0.2460 W 802.11ax HE80: 24.21 dBm / 0.2636 W 802.11ax HE160: 23.71 dBm / 0.2350 W **<6525 MHz ~ 6875 MHz>** **MIMO <Ant. 4+3>** 802.11a: 23.26 dBm / 0.2118 W 802.11ax HE20: 23.26 dBm / 0.2118 W 802.11ax HE40: 23.27 dBm / 0.2123 W 802.11ax HE80: 23.27 dBm / 0.2123 W 802.11ax HE160: 23.26 dBm / 0.2118 W
99% Occupied Bandwidth	**MIMO <Ant. 4>** 802.11a: 20.28 MHz 802.11ax HE20: 19.78 MHz 802.11ax HE40: 38.96 MHz 802.11ax HE80: 77.68 MHz 802.11ax HE160: 157.76 MHz **MIMO <Ant. 3>** 802.11a: 19.63 MHz 802.11ax HE20: 19.73 MHz 802.11ax HE40: 38.86 MHz 802.11ax HE80: 77.80 MHz 802.11ax HE160: 157.52 MHz
Antenna Type	**<5925 MHz ~ 6425 MHz>** **<Ant. 4>:** IFA Antenna **<Ant. 3>:** Loop Antenna **<6525 MHz ~ 6875 MHz>** **<Ant. 4>:** IFA Antenna **<Ant. 3>:** Loop Antenna
Antenna Gain	**<5925 MHz ~ 6425 MHz>** **<Ant. 4>:** -1.10 dBi **<Ant. 3>:** -2.50 dBi **<6525 MHz ~ 6875 MHz>** **<Ant. 4>:** 0.70 dBi **<Ant. 3>:** -2.80 dBi

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Type of Modulation</td><td>802.11a : OFDM (BPSK/QPSK/16QAM/64QAM)
802.11ax : OFDMA
(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><td></td><td>Ant. 4</td><td>Ant. 3</td></tr>
<tr><td>802.11a/ax
MIMO</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Remark:

1. MIMO Ant. 4+3 Directional Gain is a calculated result from MIMO Ant. 4 and MIMO Ant. 3. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 4 + Ant. 3 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 3.
3. The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

The directional gain “DG” is calculated as following table.

	Ant 4 (dBi)	Ant 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	-1.10	-2.50	-1.10	1.24
6525 MHz ~ 6875 MHz	0.70	-2.80	0.70	2.14

Calculation example:

If a device has two antenna, G_{ANT1}= -1.10 dBi; G_{ANT2}=-2.50 dBi

Directional gain of power measurement = max(-1.10, -2.50) + 0 = -1.10 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-1.10 dBi / 20) + 10^ (-2.50 dBi / 20)] ^ 2 } / 2 }

=1.24 dBi

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, DF02-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH16-HY (TAF Code: 3786)
Remark	The Conducted and Radiated Spurious Emissions test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, , the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

BW 20M	**Channel**	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	**Channel**	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	**Channel**	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	**Channel**	15							
	Freq. (MHz)	6025							

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	117	121	125
	Freq. (MHz)	6535	6555	6575
BW 40M	Channel	115	123	
	Freq. (MHz)	6525	6565	
BW 80M	Channel	119		
	Freq. (MHz)	6545		

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875
BW 40M	Channel	163		171		179		
	Freq. (MHz)	6765		6805		6845		
BW 80M	Channel	167				183		
	Freq. (MHz)	6785				6865		
BW 160M	Channel	175						
	Freq. (MHz)	6825						

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct., 2018.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	**6Mbps**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**
802.11ax HE160	**MCS0**

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN (6GHz) Link + Bluetooth Link + USB Cable 1 (Charging from AC Adapter 2)

Remark:
1. For Radiated Test Cases, the tests were performed with Adapter 2 and USB Cable 1.
2. During the preliminary test, both charging modes (Adapter mode and WPT Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test.

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11a	802.11a
L	Low	001	117
M	Middle	049	149
H	High	093	181

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11ax HE20	802.11ax HE20
L	Low	001	117
M	Middle	049	149
H	High	093	181

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11ax HE40	802.11ax HE40
L	Low	003	123
M	Middle	051	147
H	High	091	179

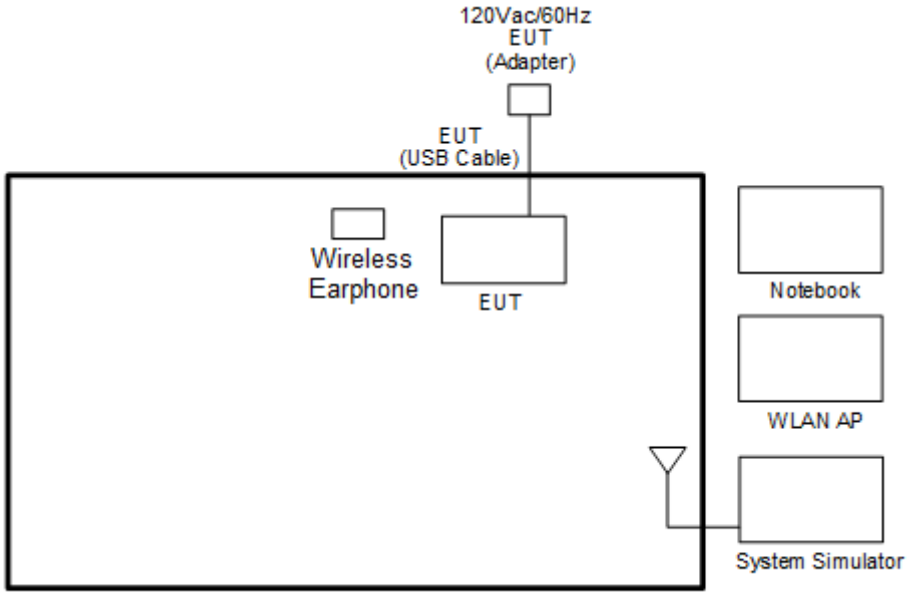
Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11ax HE80	802.11ax HE80
L	Low	007	135
M	Middle	055	151
H	High	087	167

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11ax HE160	802.11ax HE160
L	Low	015	143
M	Middle	047	
H	High	079	

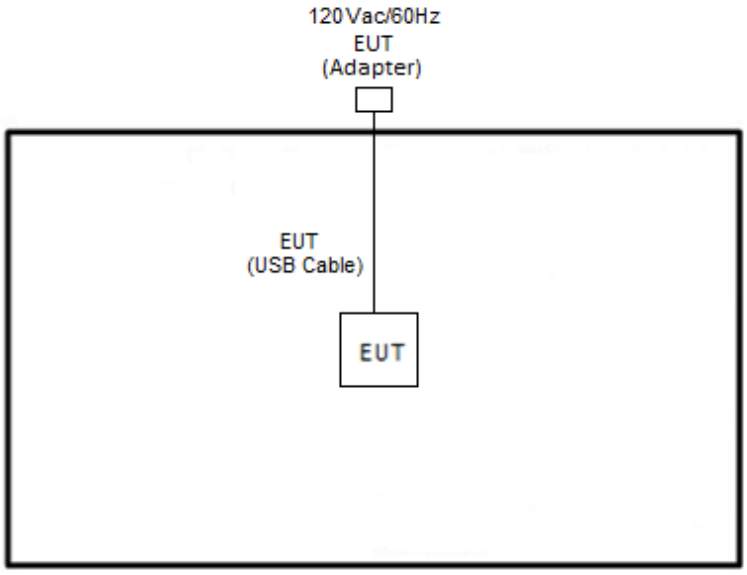
Remark: Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Wireless Earphone	Google	G1007/G1008	A4RG1007/ A4RG1008	N/A	N/A
3.	WLAN AP	ASUS	GT-AXE11000	MSQ-RTAXJF00	N/A	Unshielded,1.8m
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “adb Command 1.0.40” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

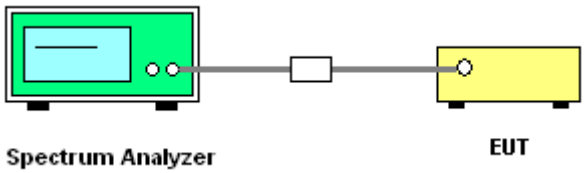
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



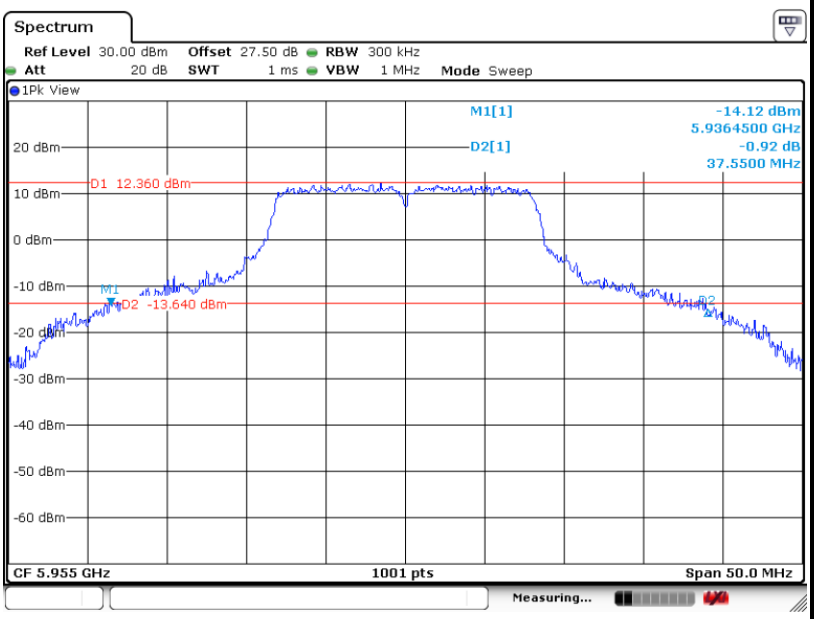
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

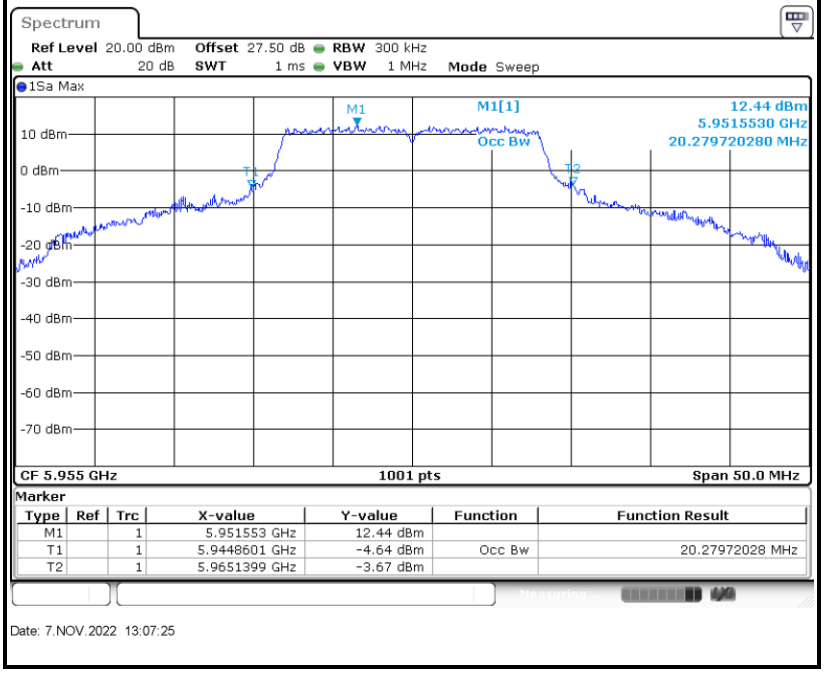
MIMO <Ant. 4+3>

<802.11a>

26dB Bandwidth



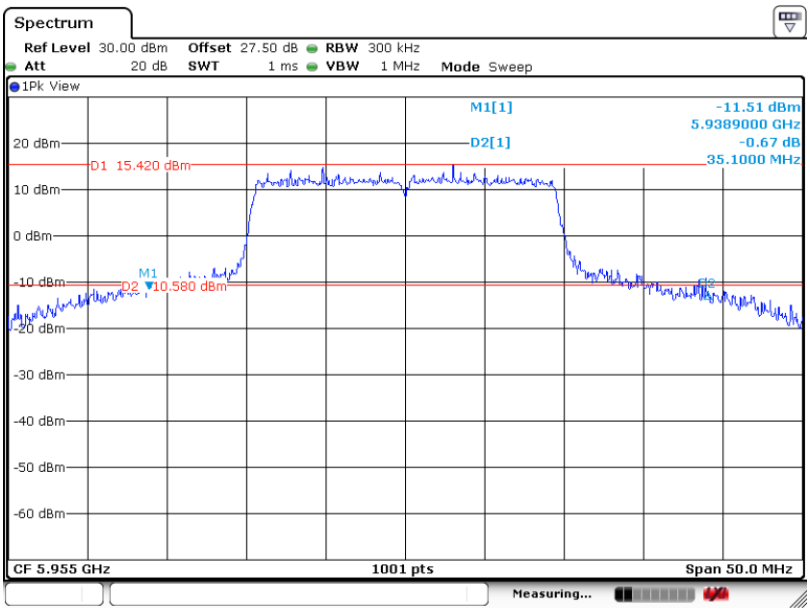
99% Occupied Bandwidth



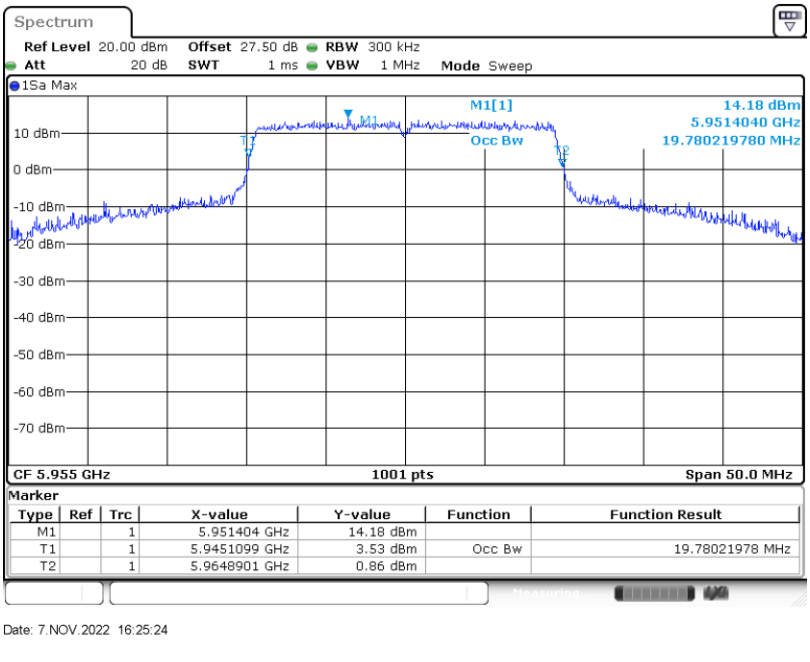
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth



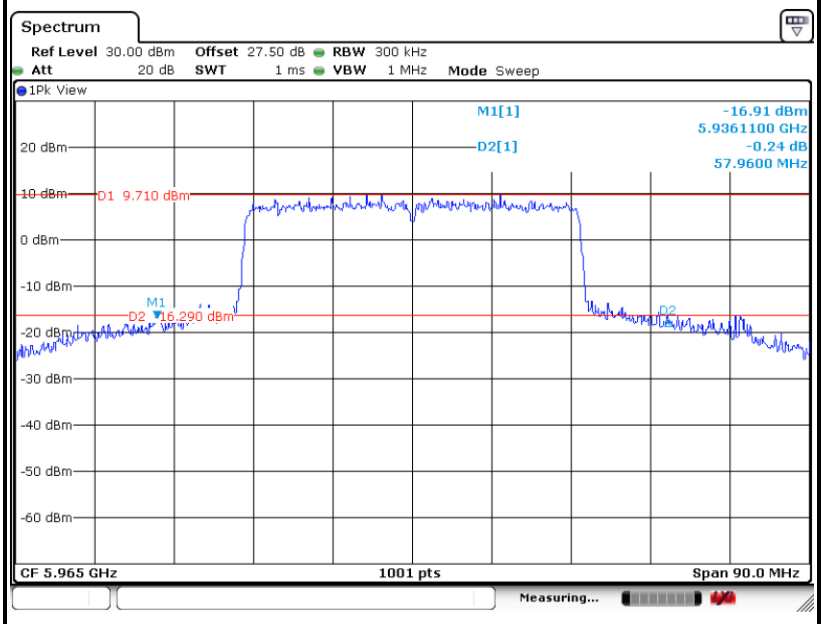
99% Occupied Bandwidth



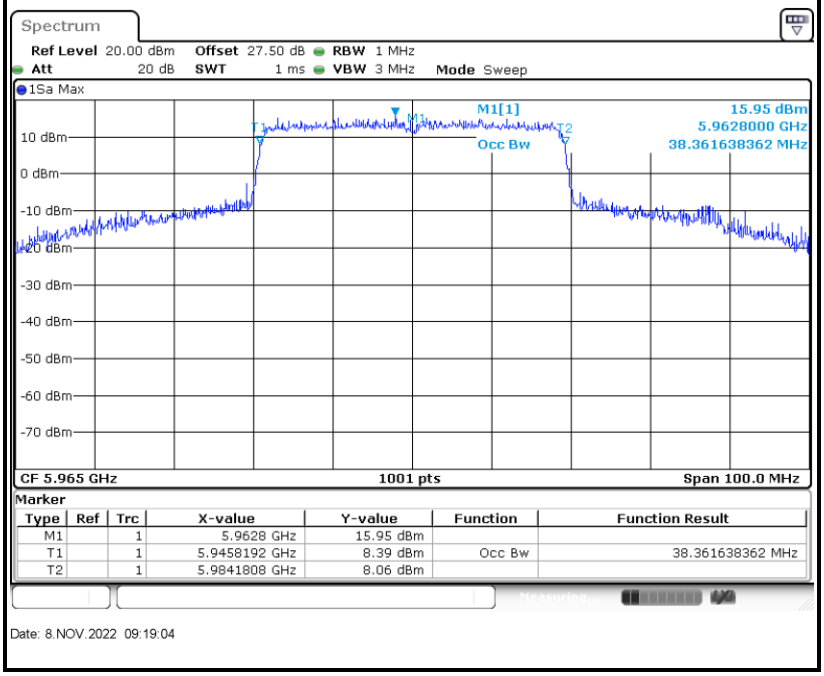
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth



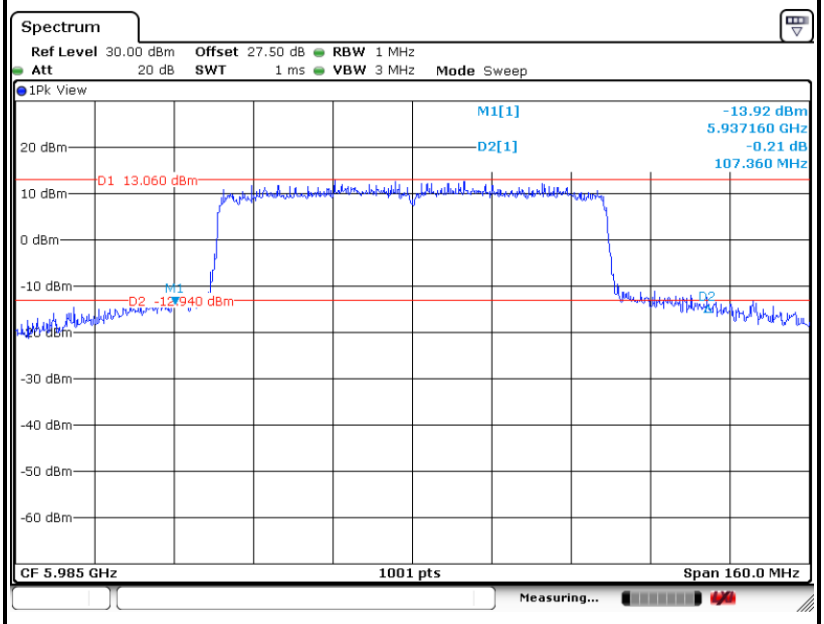
99% Occupied Bandwidth



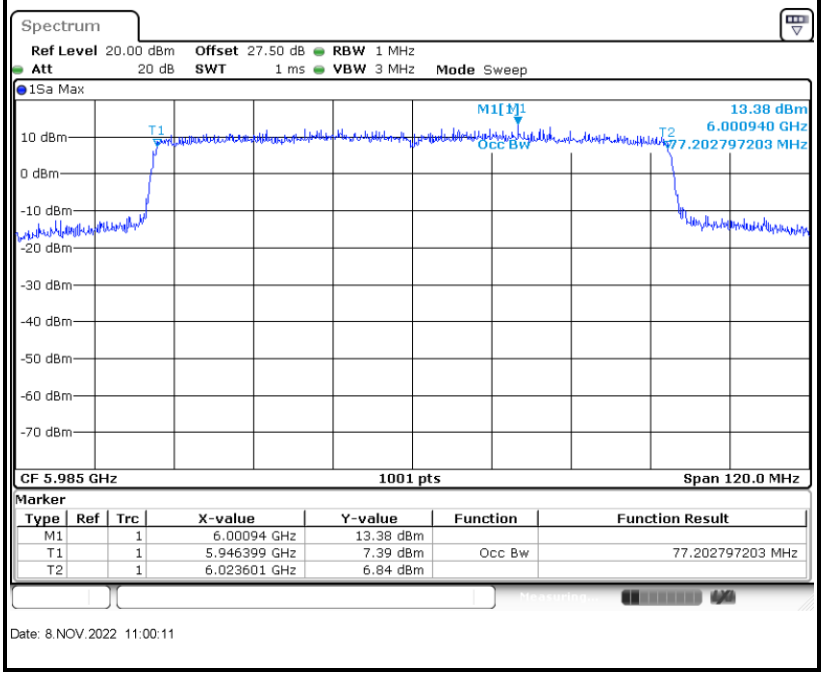
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth



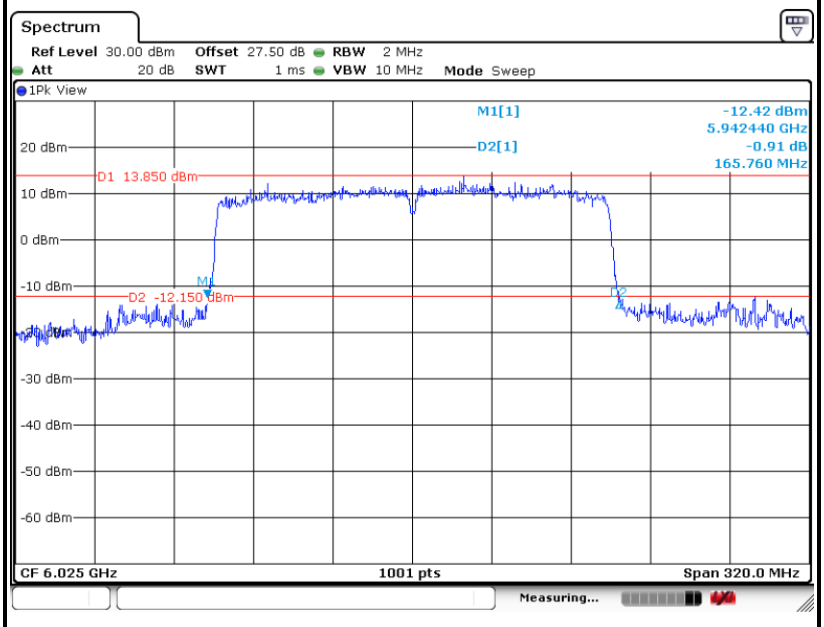
99% Occupied Bandwidth



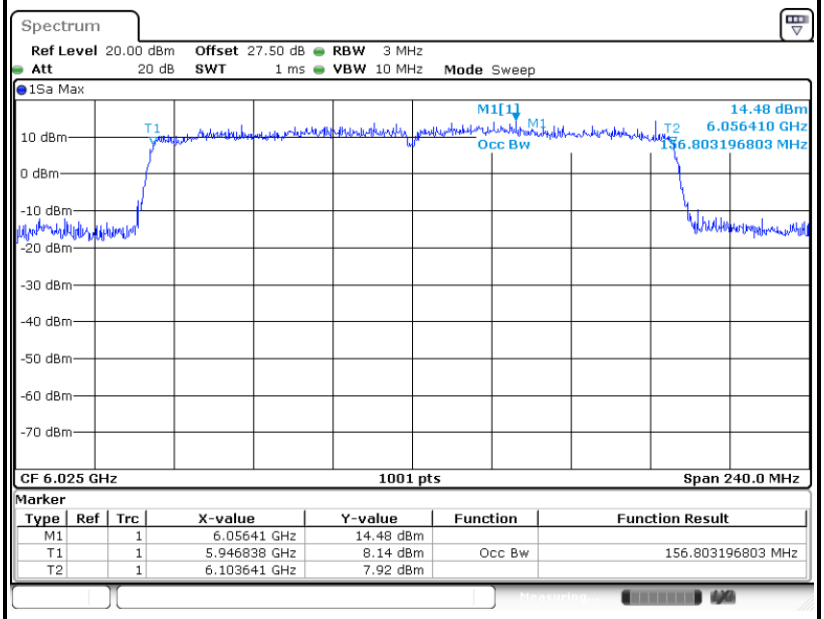
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE160>

26dB Bandwidth



99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access

point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

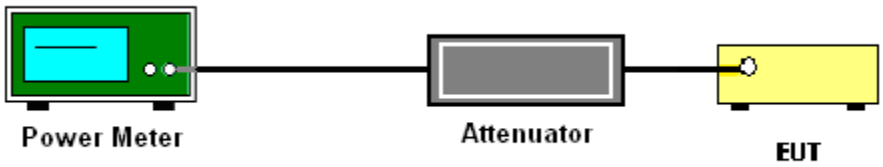
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

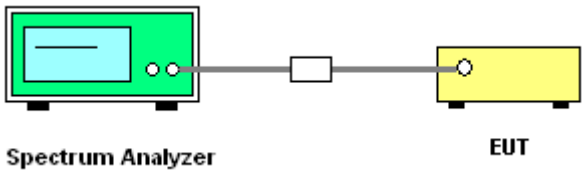
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

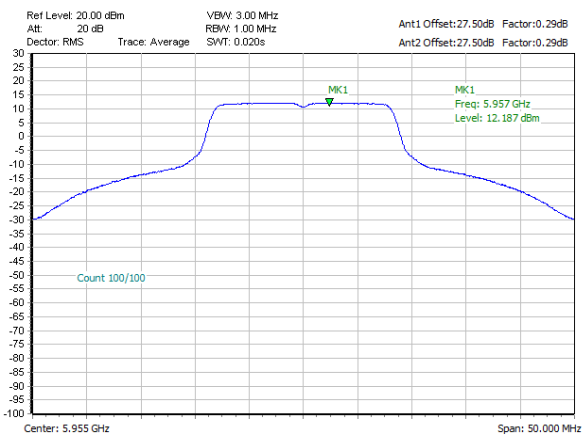
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

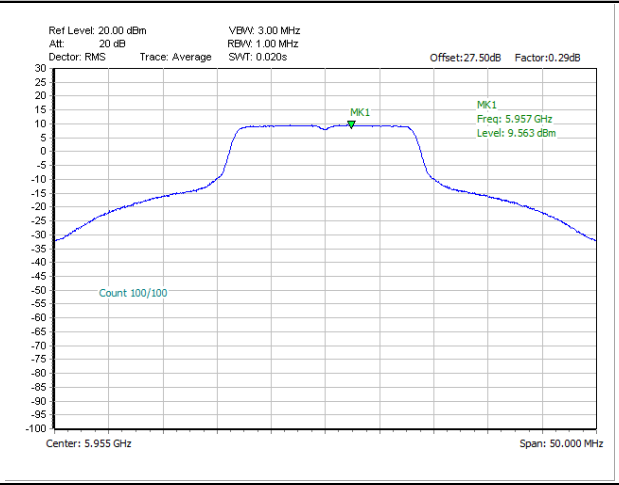
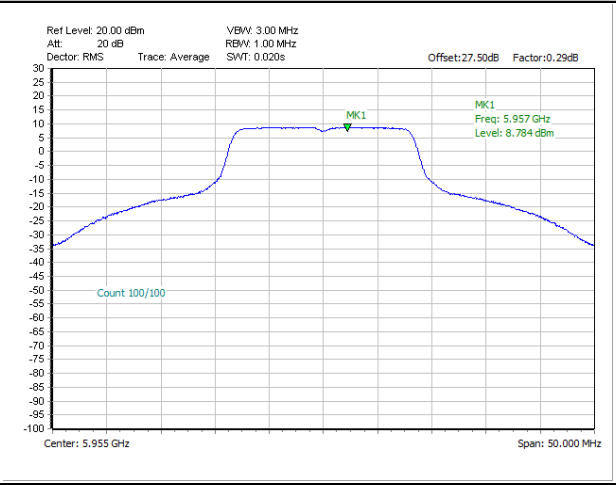
Please refer to Appendix A.

<802.11a>

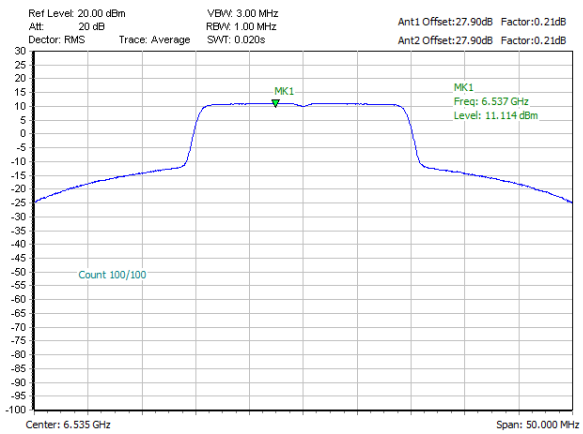
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

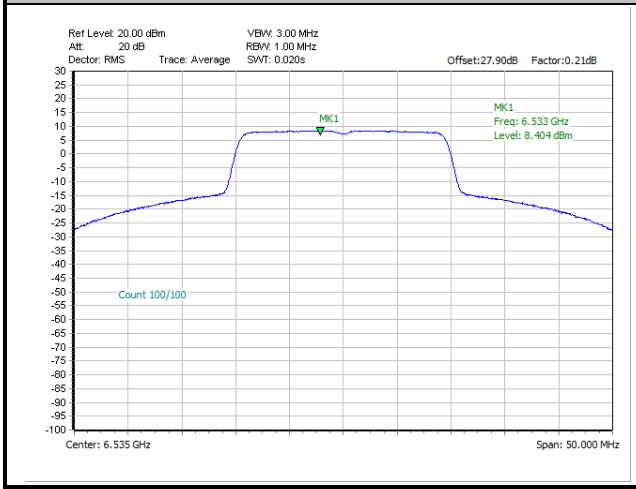
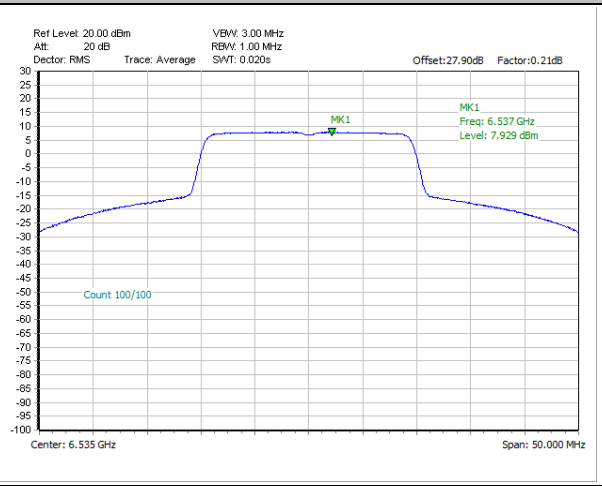
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE20 Full RU>

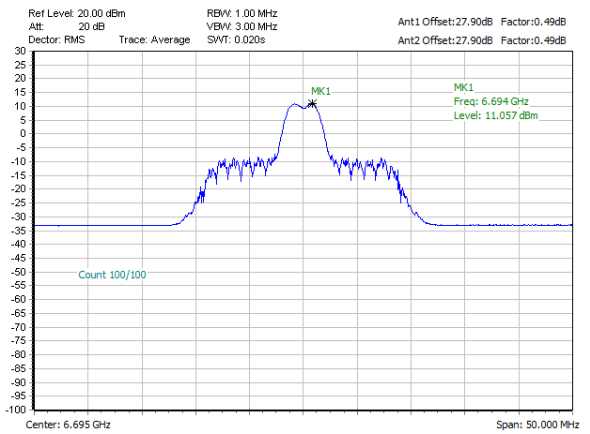
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

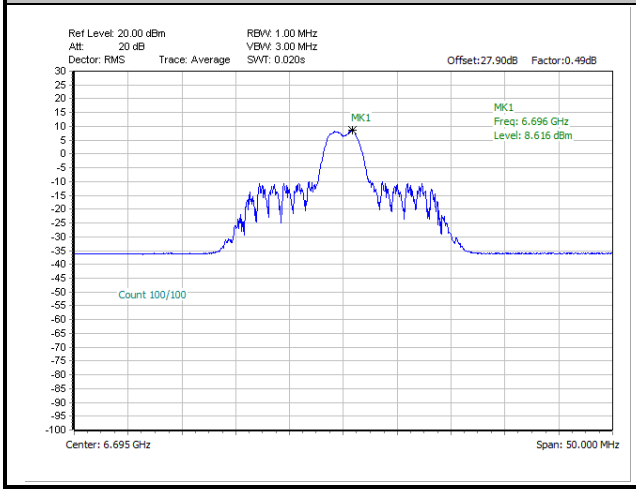
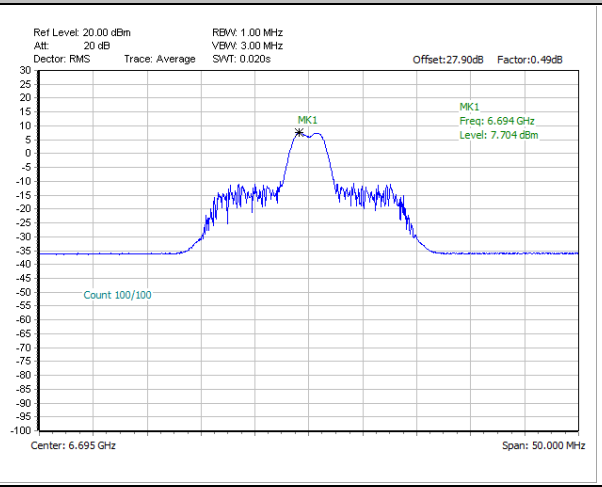
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE20 26 RU>

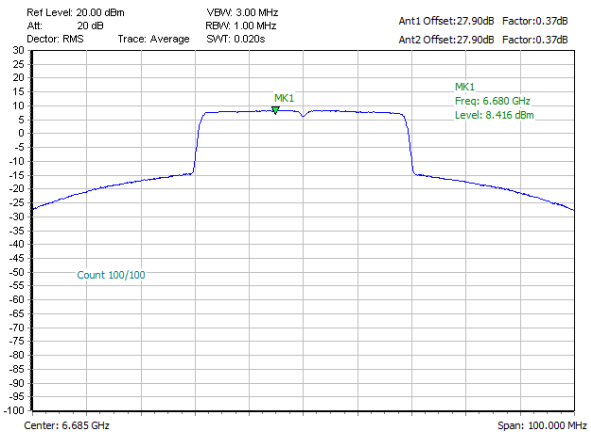
Power Density Plot (dBm/MHz)


Note:

3. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
4. The test plot is showing a bin by bin combined result mathematically adds two traces.

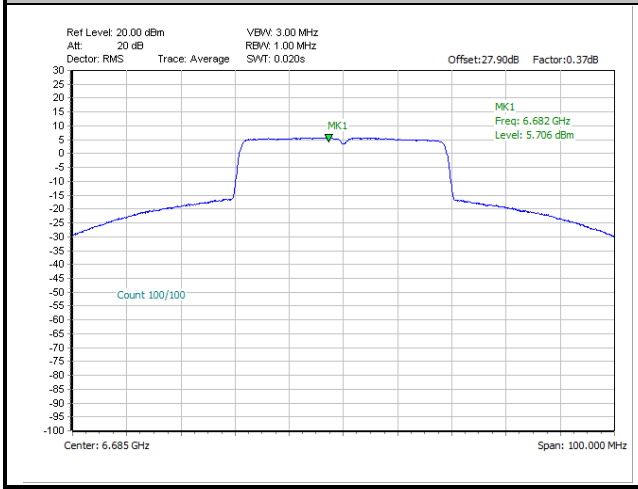
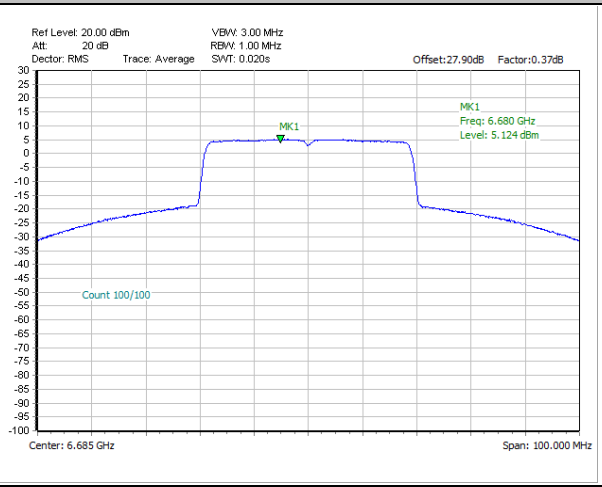
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE40>

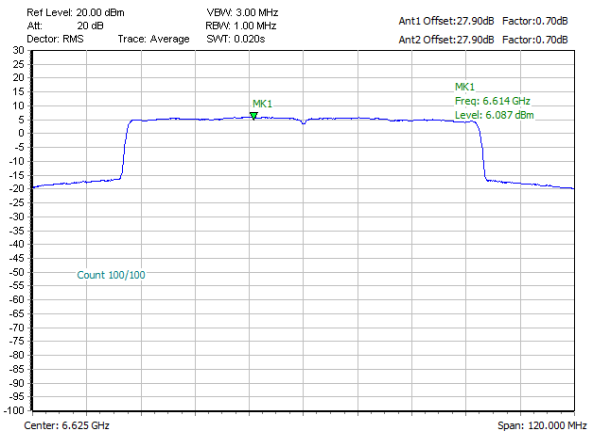
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

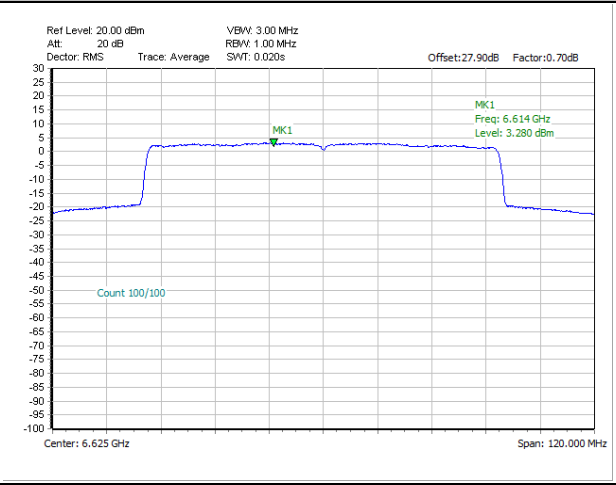
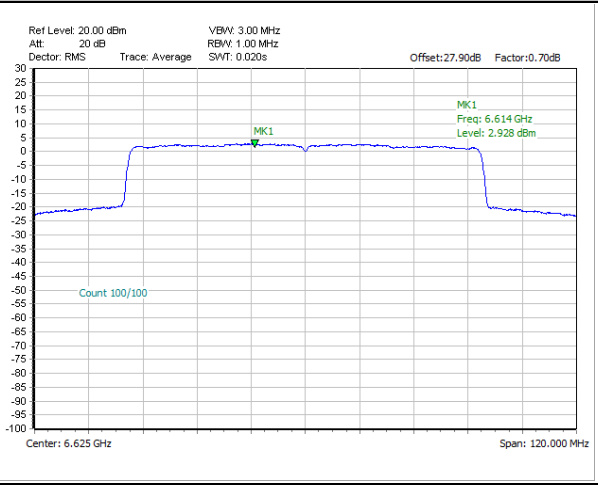
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE80>

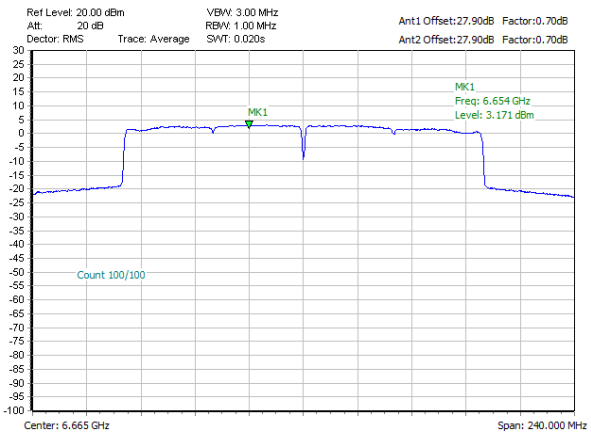
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

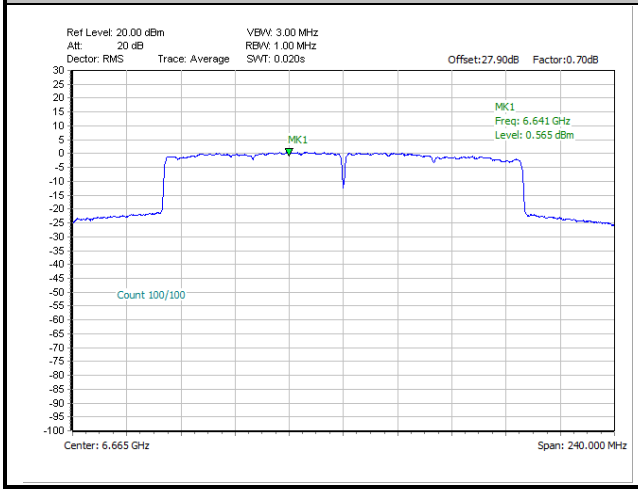
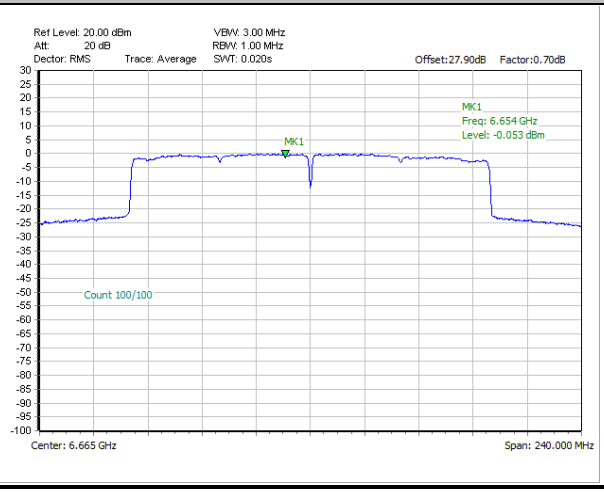
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE160>

Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(a)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

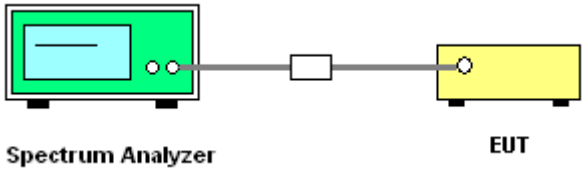
3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.
   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup

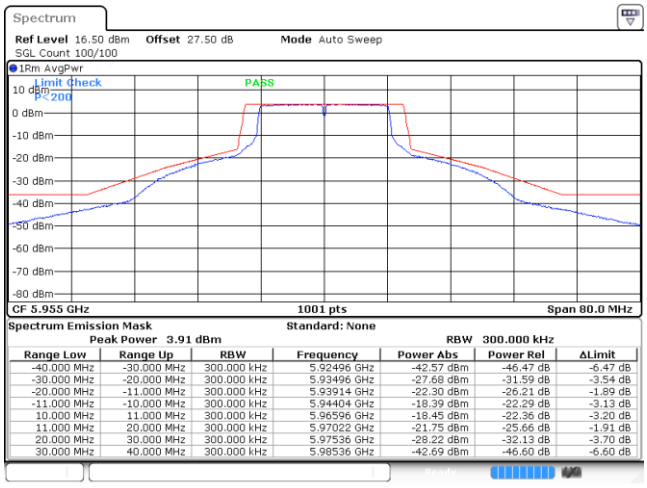


3.4.5 Test Result

MIMO <Ant. 4+3(4)>

EUT Mode :	802.11a

Plot on Channel 5955MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	5.92496 GHz	-42.57 dBm	-46.47 dB	-6.47 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	5.93496 GHz	-27.68 dBm	-31.59 dB	-3.54 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	5.93914 GHz	-22.30 dBm	-26.21 dB	-1.89 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	5.94404 GHz	-18.39 dBm	-22.29 dB	-3.13 dB
10.000 MHz	11.000 MHz	300.000 kHz	5.96596 GHz	-18.45 dBm	-22.36 dB	-3.20 dB
11.000 MHz	20.000 MHz	300.000 kHz	5.97022 GHz	-21.75 dBm	-25.66 dB	-1.91 dB
20.000 MHz	30.000 MHz	300.000 kHz	5.97536 GHz	-28.22 dBm	-32.13 dB	-3.70 dB
30.000 MHz	40.000 MHz	300.000 kHz	5.98536 GHz	-42.69 dBm	-46.60 dB	-6.60 dB

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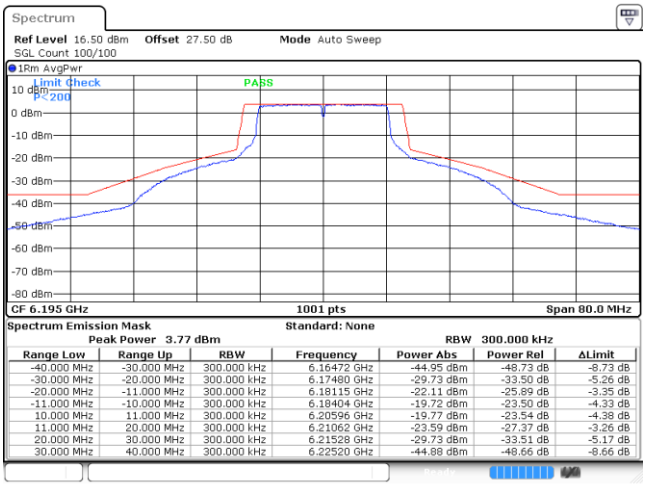
Plot on Channel 6195MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.16472 GHz	-44.95 dBm	-48.73 dB	-8.73 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.17480 GHz	-29.73 dBm	-33.50 dB	-5.26 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.18115 GHz	-22.11 dBm	-25.89 dB	-3.35 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.18404 GHz	-19.72 dBm	-23.50 dB	-4.33 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.20596 GHz	-19.77 dBm	-23.54 dB	-4.38 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.21062 GHz	-23.59 dBm	-27.37 dB	-3.26 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.21528 GHz	-29.73 dBm	-33.51 dB	-5.17 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.22520 GHz	-44.88 dBm	-48.66 dB	-8.66 dB

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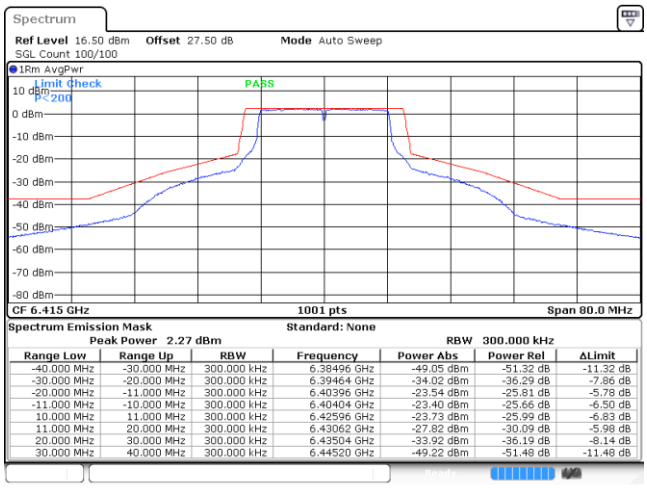
Plot on Channel 6415MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.38496 GHz	-49.05 dBm	-51.32 dB	-11.32 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.39464 GHz	-34.02 dBm	-36.29 dB	-7.86 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.40396 GHz	-23.54 dBm	-25.81 dB	-5.78 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.40404 GHz	-23.40 dBm	-25.66 dB	-6.50 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.42596 GHz	-23.73 dBm	-25.99 dB	-6.83 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.43062 GHz	-27.82 dBm	-30.09 dB	-5.98 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.43504 GHz	-33.92 dBm	-36.19 dB	-8.14 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.44520 GHz	-49.22 dBm	-51.48 dB	-11.48 dB

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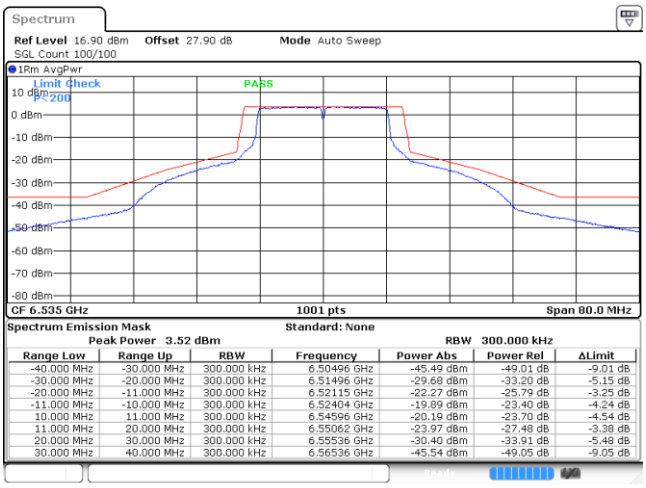
Plot on Channel 6535MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.50496 GHz	-45.49 dBm	-49.01 dB	-9.01 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.51496 GHz	-29.68 dBm	-33.20 dB	-5.15 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.52115 GHz	-22.27 dBm	-25.79 dB	-3.25 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-19.89 dBm	-23.40 dB	-4.24 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-20.19 dBm	-23.70 dB	-4.54 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.55062 GHz	-23.97 dBm	-27.48 dB	-3.38 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.55536 GHz	-30.40 dBm	-33.91 dB	-5.48 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.56536 GHz	-45.54 dBm	-49.05 dB	-9.05 dB

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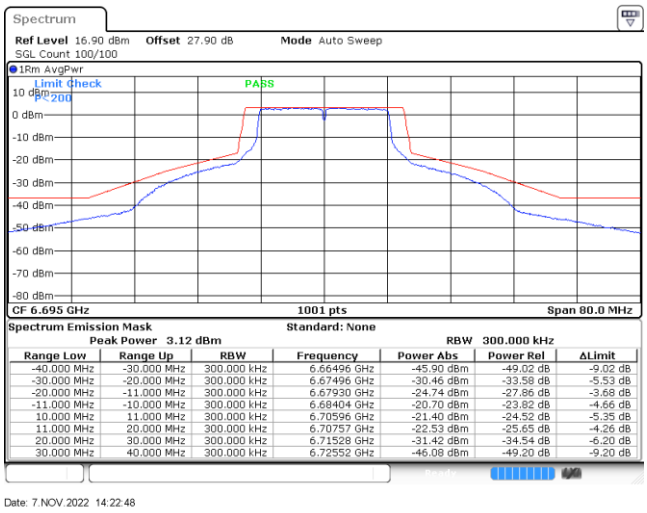
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66496 GHz	-45.90 dBm	-49.02 dB	-9.02 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.67496 GHz	-30.46 dBm	-33.58 dB	-5.53 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.67930 GHz	-24.74 dBm	-27.86 dB	-3.68 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-20.70 dBm	-23.82 dB	-4.66 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-21.40 dBm	-24.52 dB	-5.35 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70757 GHz	-22.53 dBm	-25.65 dB	-4.26 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.71528 GHz	-31.42 dBm	-34.54 dB	-6.20 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72552 GHz	-46.08 dBm	-49.20 dB	-9.20 dB

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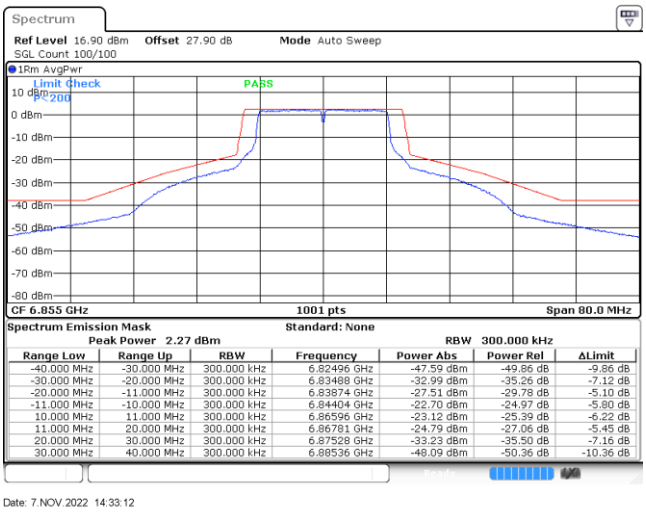
Plot on Channel 6855MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82496 GHz	-47.59 dBm	-49.86 dB	-9.86 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.83488 GHz	-32.99 dBm	-35.26 dB	-7.12 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.83874 GHz	-27.51 dBm	-29.78 dB	-5.10 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-22.70 dBm	-24.97 dB	-5.80 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-23.12 dBm	-25.39 dB	-6.22 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86781 GHz	-24.79 dBm	-27.06 dB	-5.45 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.87528 GHz	-33.23 dBm	-35.50 dB	-7.16 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88536 GHz	-48.09 dBm	-50.36 dB	-10.36 dB

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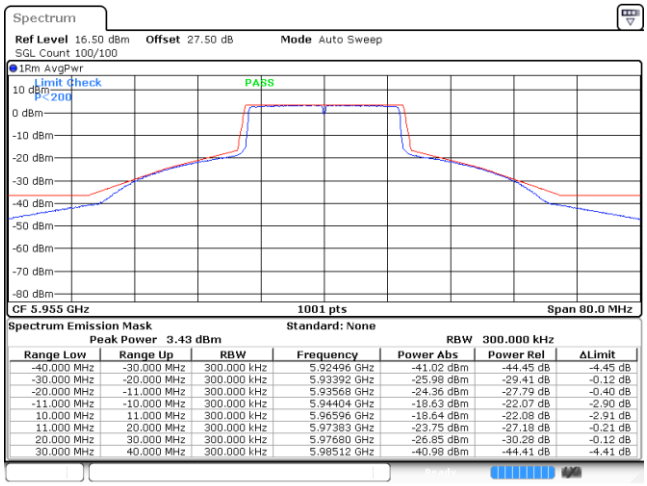
EUT Mode :	802.11ax HE20 Full RU

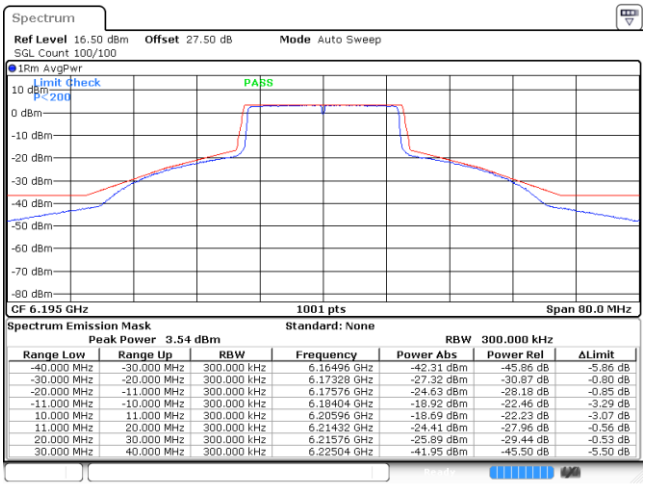
Plot on Channel 5955MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	5.92496 GHz	-41.02 dBm	-44.45 dB	-4.45 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	5.93392 GHz	-25.98 dBm	-29.41 dB	-0.12 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	5.93568 GHz	-24.36 dBm	-27.79 dB	-0.40 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	5.94404 GHz	-18.63 dBm	-22.07 dB	-2.90 dB
10.000 MHz	11.000 MHz	300.000 kHz	5.96596 GHz	-18.64 dBm	-22.08 dB	-2.91 dB
11.000 MHz	20.000 MHz	300.000 kHz	5.97383 GHz	-23.75 dBm	-27.18 dB	-0.21 dB
20.000 MHz	30.000 MHz	300.000 kHz	5.97680 GHz	-26.85 dBm	-30.28 dB	-0.12 dB
30.000 MHz	40.000 MHz	300.000 kHz	5.98512 GHz	-40.98 dBm	-44.41 dB	-4.41 dB

Date: 7.NOV.2022 16:31:26

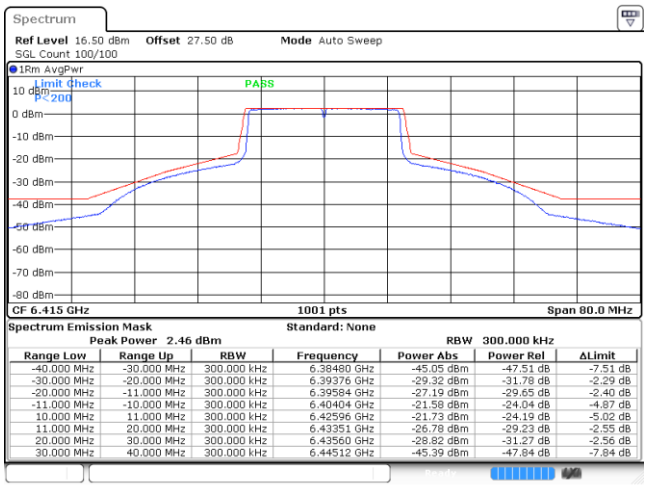
Plot on Channel 6195MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.16496 GHz	-42.31 dBm	-45.86 dB	-5.86 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.17328 GHz	-27.32 dBm	-30.87 dB	-0.80 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.17576 GHz	-24.63 dBm	-28.18 dB	-0.85 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.18404 GHz	-18.92 dBm	-22.46 dB	-3.29 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.20596 GHz	-18.69 dBm	-22.23 dB	-3.07 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.21432 GHz	-24.41 dBm	-27.96 dB	-0.56 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.21576 GHz	-25.89 dBm	-29.44 dB	-0.53 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.22504 GHz	-41.95 dBm	-45.50 dB	-5.50 dB

Date: 7.NOV.2022 16:46:28

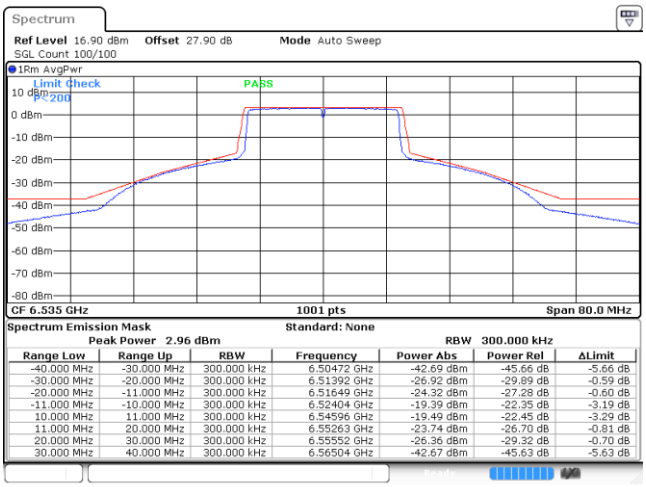
Plot on Channel 6415MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.38480 GHz	-45.05 dBm	-47.51 dB	-7.51 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.39376 GHz	-29.32 dBm	-31.78 dB	-2.29 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.39584 GHz	-27.19 dBm	-29.65 dB	-2.40 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.40404 GHz	-21.58 dBm	-24.04 dB	-4.87 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.42596 GHz	-21.73 dBm	-24.19 dB	-5.02 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.43351 GHz	-26.78 dBm	-29.23 dB	-2.55 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.43560 GHz	-28.82 dBm	-31.27 dB	-2.56 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.44512 GHz	-45.39 dBm	-47.84 dB	-7.84 dB

Date: 8.NOV.2022 08:21:28

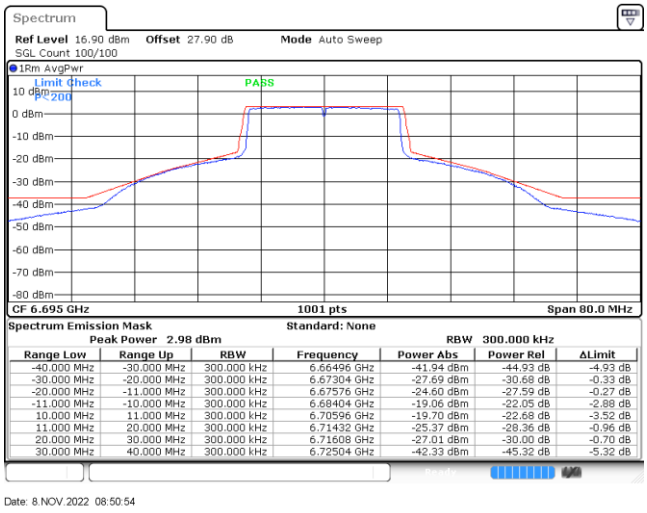
Plot on Channel 6535MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.50472 GHz	-42.69 dBm	-45.66 dB	-5.66 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.51392 GHz	-26.92 dBm	-29.89 dB	-0.59 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.51649 GHz	-24.32 dBm	-27.28 dB	-0.60 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-19.39 dBm	-22.35 dB	-3.19 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-19.49 dBm	-22.45 dB	-3.29 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.55263 GHz	-23.74 dBm	-26.70 dB	-0.81 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.55552 GHz	-26.36 dBm	-29.32 dB	-0.70 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.56504 GHz	-42.67 dBm	-45.63 dB	-5.63 dB

Date: 8.NOV.2022 08:34:02

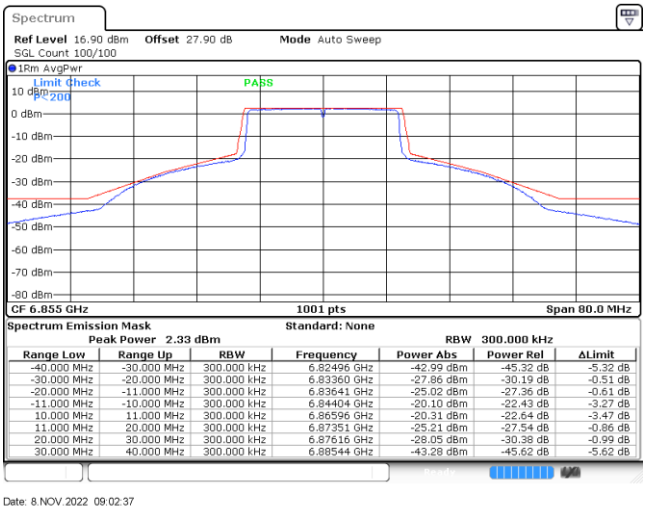
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66496 GHz	-41.94 dBm	-44.93 dB	-4.93 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.67304 GHz	-27.69 dBm	-30.68 dB	-0.33 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.67576 GHz	-24.60 dBm	-27.59 dB	-0.27 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-19.06 dBm	-22.05 dB	-2.88 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-19.70 dBm	-22.68 dB	-3.52 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.71432 GHz	-25.37 dBm	-28.36 dB	-0.96 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.71608 GHz	-27.01 dBm	-30.00 dB	-0.70 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72504 GHz	-42.33 dBm	-45.32 dB	-5.32 dB

Date: 8.NOV.2022 08:50:54

Plot on Channel 6855MHz

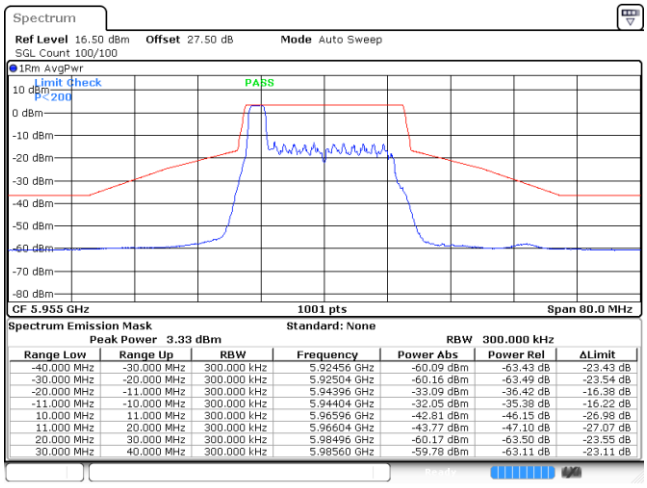


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82496 GHz	-42.99 dBm	-45.32 dB	-5.32 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.83360 GHz	-27.86 dBm	-30.19 dB	-0.51 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.83641 GHz	-25.02 dBm	-27.36 dB	-0.61 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-20.10 dBm	-22.43 dB	-3.27 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-20.31 dBm	-22.64 dB	-3.47 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.87351 GHz	-25.21 dBm	-27.54 dB	-0.86 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.87616 GHz	-28.05 dBm	-30.38 dB	-0.99 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88544 GHz	-43.28 dBm	-45.62 dB	-5.62 dB

Date: 8.NOV.2022 09:02:37

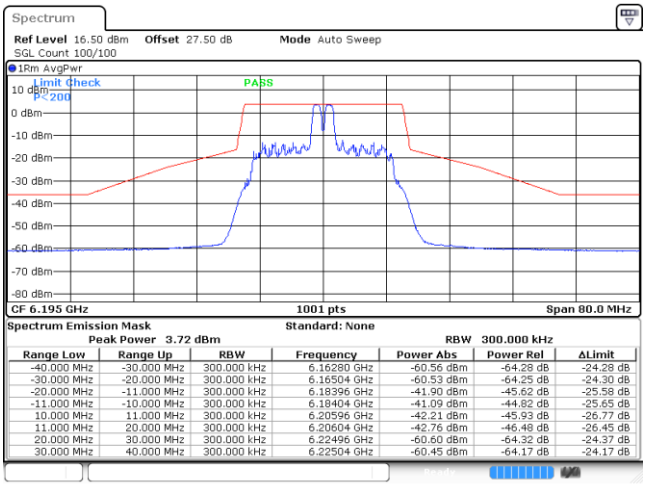
EUT Mode :	802.11ax HE20 26RU

Plot on Channel 5955MHz



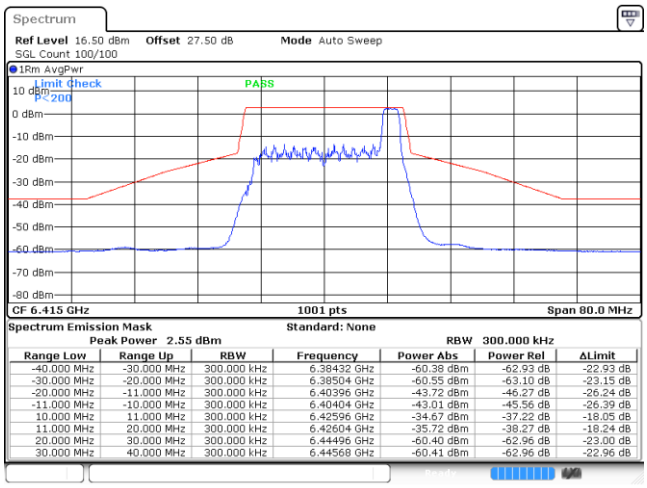
Date: 8.NOV.2022 15:52:52

Plot on Channel 6195MHz



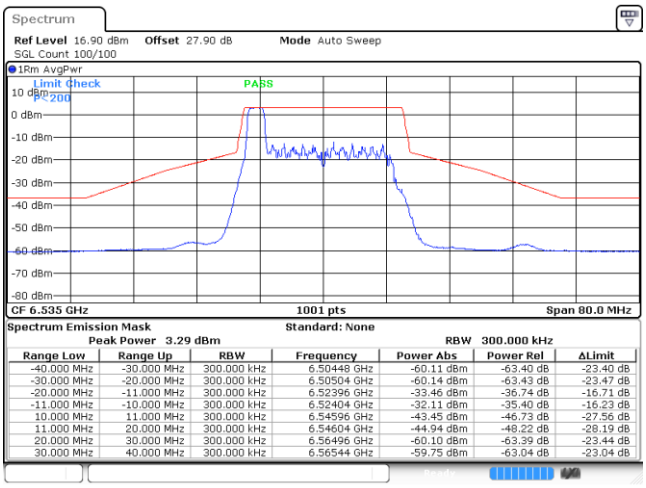
Date: 8.NOV.2022 16:25:54

Plot on Channel 6415MHz



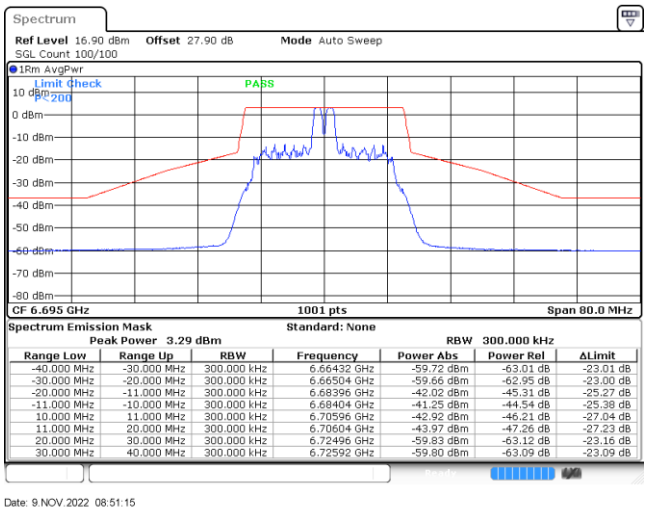
Date: 8.NOV.2022 16:56:46

Plot on Channel 6535MHz



Date: 9.NOV.2022 08:32:13

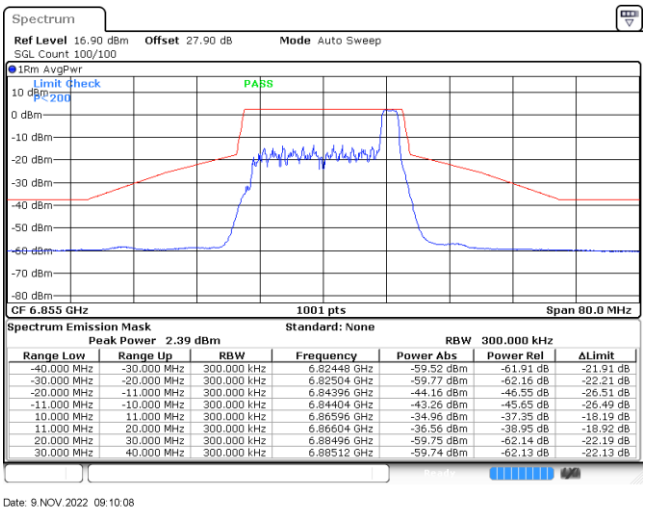
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66432 GHz	-59.72 dBm	-63.01 dB	-23.01 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66504 GHz	-59.66 dBm	-62.95 dB	-23.00 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68396 GHz	-42.02 dBm	-45.31 dB	-25.27 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-41.25 dBm	-44.54 dB	-25.38 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-42.92 dBm	-46.21 dB	-27.04 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70604 GHz	-43.97 dBm	-47.26 dB	-27.23 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72496 GHz	-59.83 dBm	-63.12 dB	-23.16 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72592 GHz	-59.80 dBm	-63.09 dB	-23.09 dB

Date: 9.NOV.2022 08:51:15

Plot on Channel 6855MHz

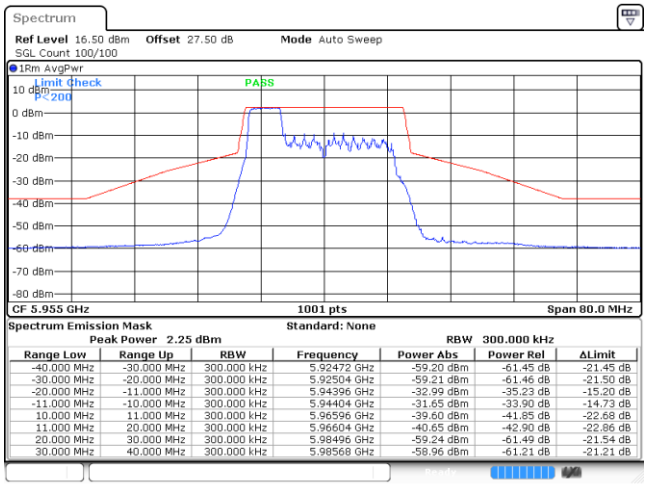


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82448 GHz	-59.52 dBm	-61.91 dB	-21.91 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82504 GHz	-59.77 dBm	-62.16 dB	-22.21 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.84396 GHz	-44.16 dBm	-46.55 dB	-26.51 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-43.26 dBm	-45.65 dB	-26.49 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-34.96 dBm	-37.35 dB	-18.19 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86604 GHz	-36.56 dBm	-38.95 dB	-18.92 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88496 GHz	-59.75 dBm	-62.14 dB	-22.19 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88512 GHz	-59.74 dBm	-62.13 dB	-22.13 dB

Date: 9.NOV.2022 09:10:08

EUT Mode :	802.11ax HE20 52RU

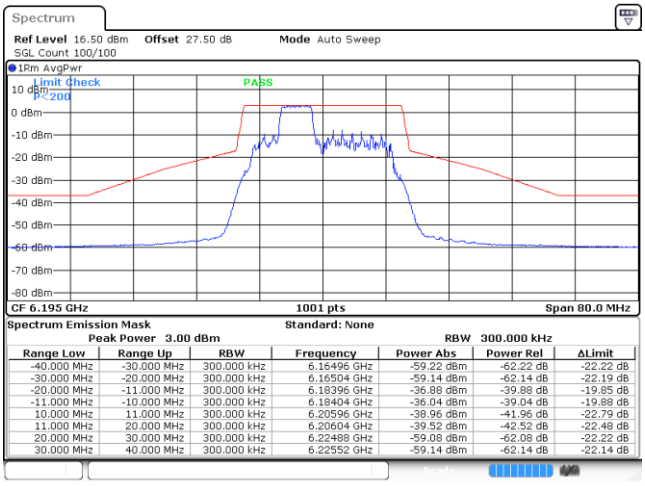
Plot on Channel 5955MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	5.92472 GHz	-59.20 dBm	-61.45 dB	-21.45 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	5.92504 GHz	-59.21 dBm	-61.46 dB	-21.50 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	5.94396 GHz	-32.99 dBm	-35.23 dB	-15.20 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	5.94404 GHz	-31.65 dBm	-33.90 dB	-14.73 dB
10.000 MHz	11.000 MHz	300.000 kHz	5.96596 GHz	-39.60 dBm	-41.85 dB	-22.68 dB
11.000 MHz	20.000 MHz	300.000 kHz	5.96604 GHz	-40.65 dBm	-42.90 dB	-22.86 dB
20.000 MHz	30.000 MHz	300.000 kHz	5.98496 GHz	-59.24 dBm	-61.49 dB	-21.54 dB
30.000 MHz	40.000 MHz	300.000 kHz	5.98568 GHz	-58.96 dBm	-61.21 dB	-21.21 dB

Date: 8.NOV.2022 16:07:04

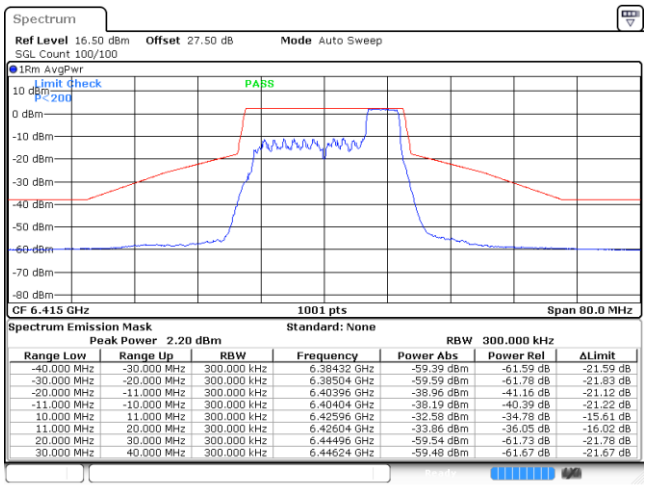
Plot on Channel 6195MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.16496 GHz	-59.22 dBm	-62.22 dB	-22.22 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.16504 GHz	-59.14 dBm	-62.14 dB	-22.19 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.18396 GHz	-36.88 dBm	-39.88 dB	-19.85 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.18404 GHz	-36.04 dBm	-39.04 dB	-19.88 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.20596 GHz	-38.96 dBm	-41.96 dB	-22.79 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.20604 GHz	-39.52 dBm	-42.52 dB	-22.48 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.22488 GHz	-59.08 dBm	-62.08 dB	-22.22 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.22552 GHz	-59.14 dBm	-62.14 dB	-22.14 dB

Date: 8.NOV.2022 16:37:15

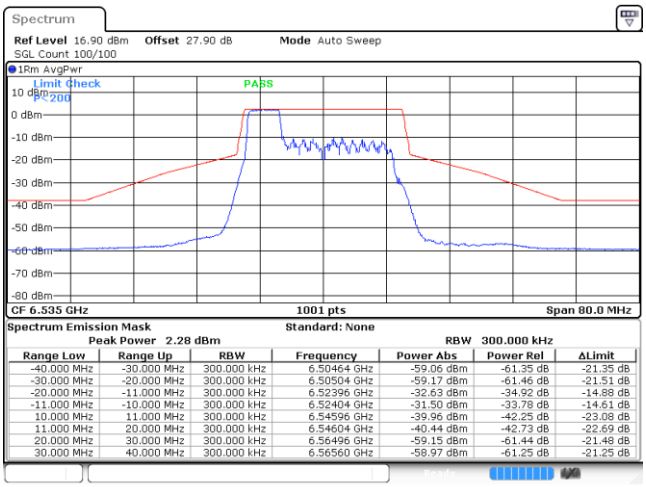
Plot on Channel 6415MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.38432 GHz	-59.39 dBm	-61.59 dB	-21.59 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.38504 GHz	-59.59 dBm	-61.78 dB	-21.83 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.40396 GHz	-38.96 dBm	-41.16 dB	-21.12 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.40404 GHz	-38.19 dBm	-40.39 dB	-21.22 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.42596 GHz	-32.58 dBm	-34.78 dB	-15.61 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.42604 GHz	-33.86 dBm	-36.05 dB	-16.02 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.44496 GHz	-59.54 dBm	-61.73 dB	-21.78 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.44624 GHz	-59.48 dBm	-61.67 dB	-21.67 dB

Date: 9.NOV.2022 08:13:01

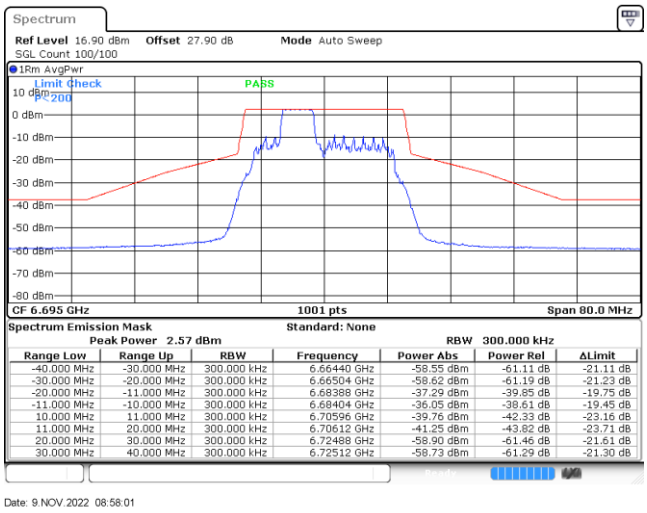
Plot on Channel 6535MHz



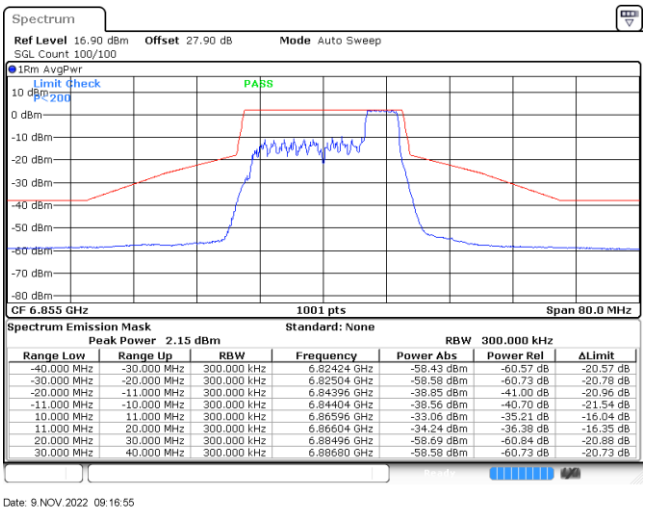
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.50464 GHz	-59.06 dBm	-61.35 dB	-21.35 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.50504 GHz	-59.17 dBm	-61.46 dB	-21.51 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.52396 GHz	-32.63 dBm	-34.92 dB	-14.88 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-31.50 dBm	-33.78 dB	-14.61 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-39.96 dBm	-42.25 dB	-23.08 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.54604 GHz	-40.44 dBm	-42.73 dB	-22.69 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.56496 GHz	-59.15 dBm	-61.44 dB	-21.48 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.56560 GHz	-58.97 dBm	-61.25 dB	-21.25 dB

Date: 9.NOV.2022 08:37:35

Plot on Channel 6695MHz

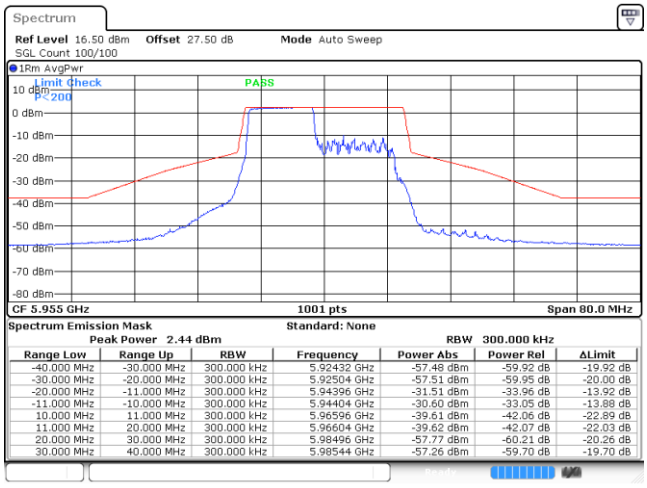


Plot on Channel 6855MHz



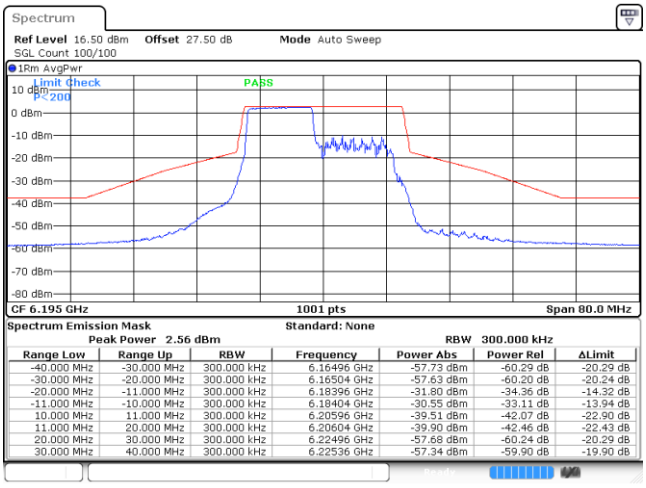
EUT Mode :	802.11ax HE20 106RU

Plot on Channel 5955MHz



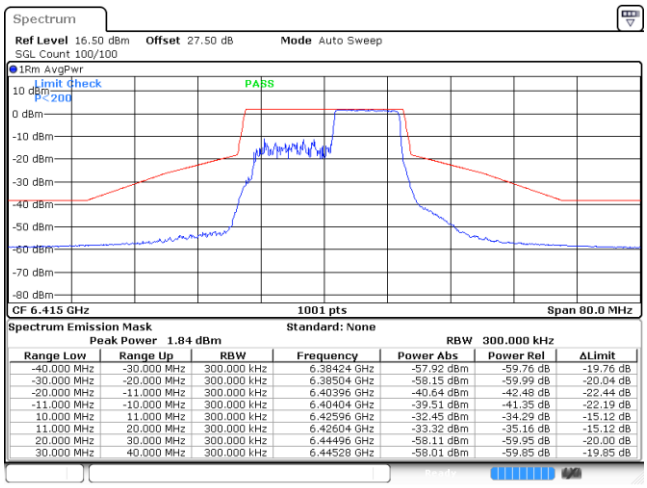
Date: 8.NOV.2022 16:12:49

Plot on Channel 6195MHz



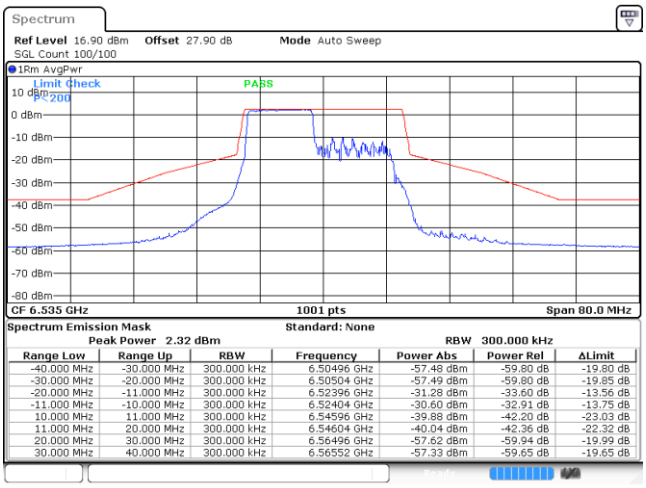
Date: 8.NOV.2022 16:44:32

Plot on Channel 6415MHz



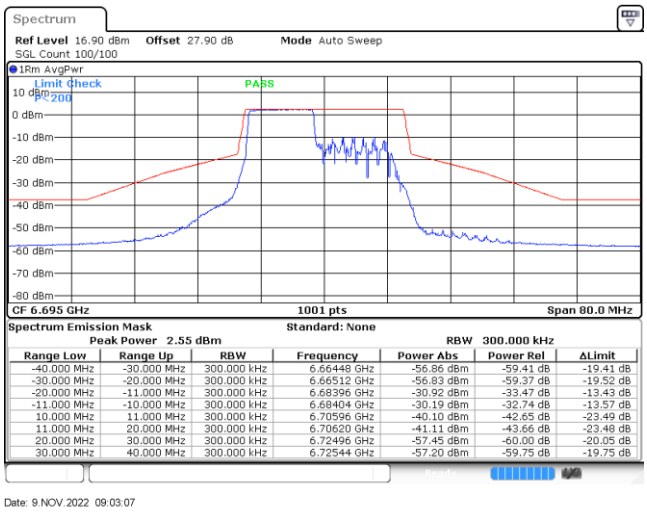
Date: 9.NOV.2022 08:22:00

Plot on Channel 6535MHz



Date: 9.NOV.2022 08:43:17

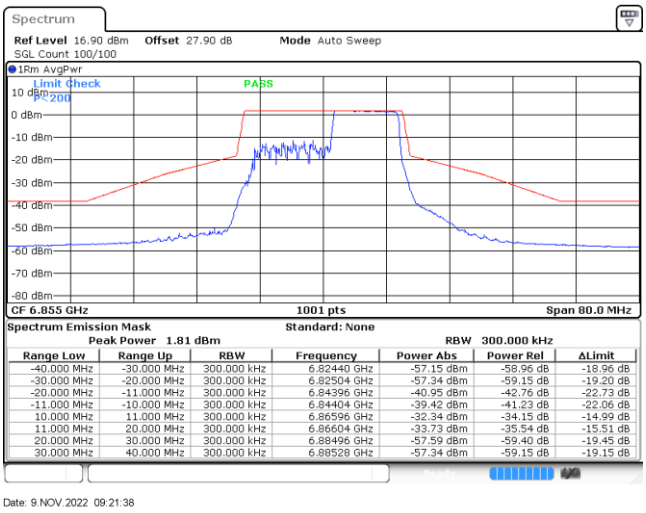
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66448 GHz	-56.86 dBm	-59.41 dB	-19.41 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66512 GHz	-56.83 dBm	-59.37 dB	-19.52 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68396 GHz	-30.92 dBm	-33.47 dB	-13.43 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-30.19 dBm	-32.74 dB	-13.57 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-40.10 dBm	-42.65 dB	-23.49 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70620 GHz	-41.11 dBm	-43.66 dB	-23.48 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72496 GHz	-57.45 dBm	-60.00 dB	-20.05 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72544 GHz	-57.20 dBm	-59.75 dB	-19.75 dB

Date: 9.NOV.2022 09:03:07

Plot on Channel 6855MHz

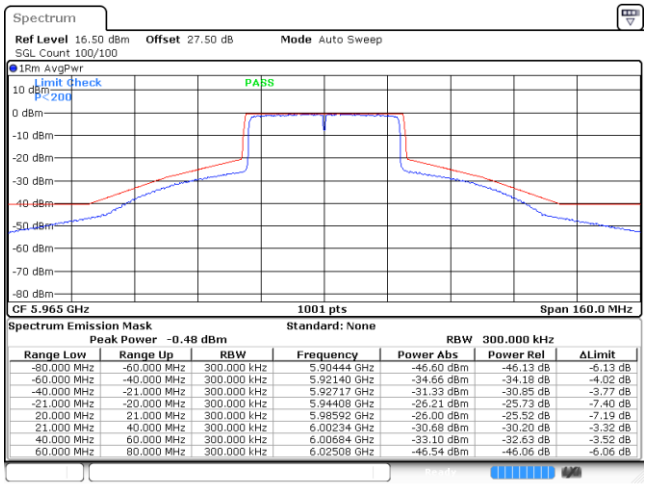


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82440 GHz	-57.15 dBm	-58.96 dB	-18.96 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82504 GHz	-57.34 dBm	-59.15 dB	-19.20 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.84396 GHz	-40.95 dBm	-42.76 dB	-22.73 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-39.42 dBm	-41.23 dB	-22.06 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-32.34 dBm	-34.15 dB	-14.99 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86604 GHz	-33.73 dBm	-35.54 dB	-15.51 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88496 GHz	-57.59 dBm	-59.40 dB	-19.45 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88528 GHz	-57.34 dBm	-59.15 dB	-19.15 dB

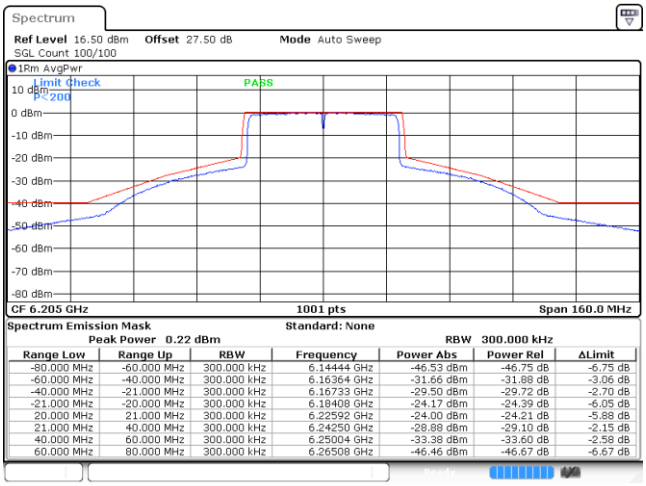
Date: 9.NOV.2022 09:21:38

EUT Mode :	802.11ax HE40 Full RU

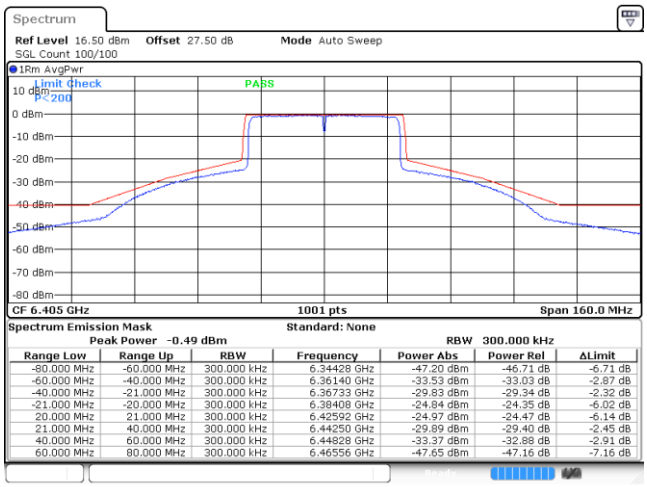
Plot on Channel 5965MHz



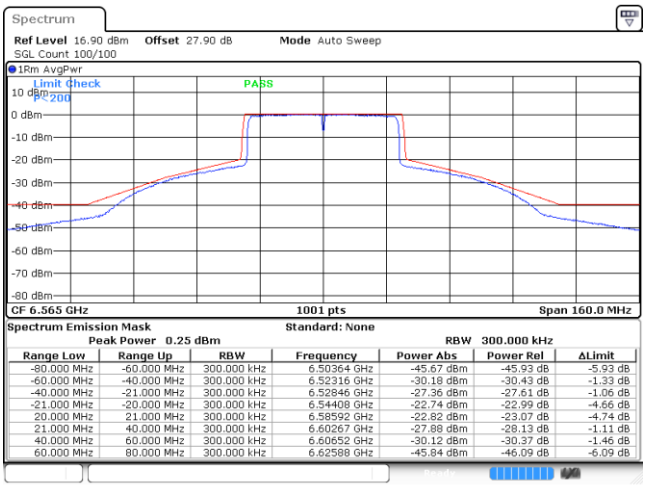
Plot on Channel 6205MHz



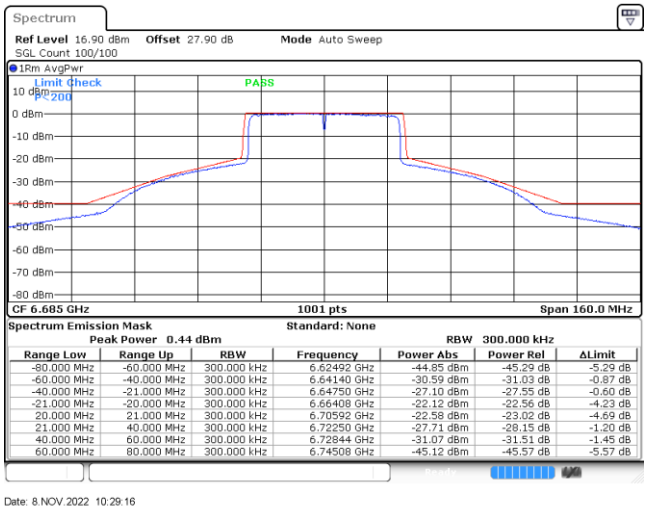
Plot on Channel 6405MHz



Plot on Channel 6565MHz



Plot on Channel 6685MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-80.000 MHz	-60.000 MHz	300.000 kHz	6.62492 GHz	-44.85 dBm	-45.29 dB	-5.29 dB
-60.000 MHz	-40.000 MHz	300.000 kHz	6.64140 GHz	-30.59 dBm	-31.03 dB	-0.87 dB
-40.000 MHz	-21.000 MHz	300.000 kHz	6.64750 GHz	-27.10 dBm	-27.55 dB	-0.60 dB
-21.000 MHz	-20.000 MHz	300.000 kHz	6.66408 GHz	-22.12 dBm	-22.56 dB	-4.23 dB
20.000 MHz	21.000 MHz	300.000 kHz	6.70592 GHz	-22.58 dBm	-23.02 dB	-4.69 dB
21.000 MHz	40.000 MHz	300.000 kHz	6.72250 GHz	-27.71 dBm	-28.15 dB	-1.20 dB
40.000 MHz	60.000 MHz	300.000 kHz	6.72844 GHz	-31.07 dBm	-31.51 dB	-1.45 dB
60.000 MHz	80.000 MHz	300.000 kHz	6.74508 GHz	-45.12 dBm	-45.57 dB	-5.57 dB

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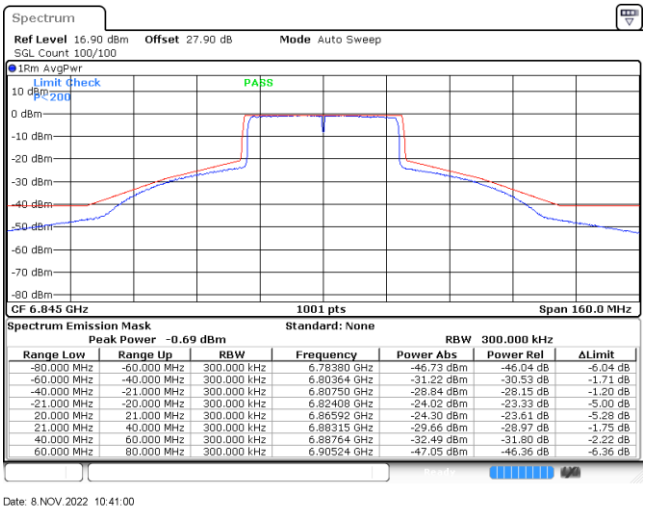
Plot on Channel 6845MHz

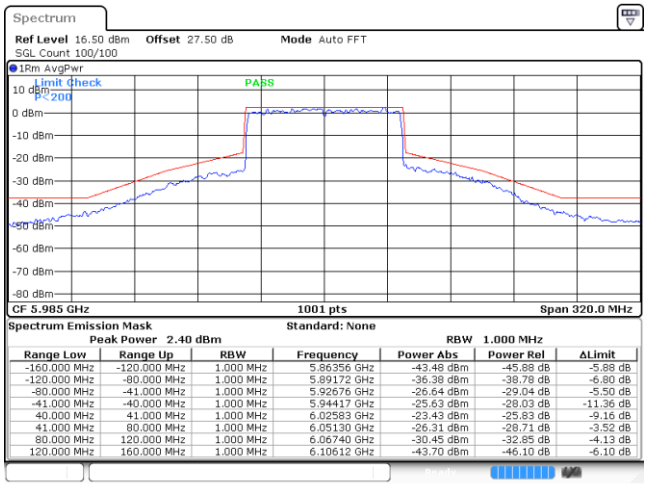


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-80.000 MHz	-60.000 MHz	300.000 kHz	6.78380 GHz	-46.73 dBm	-46.04 dB	-6.04 dB
-60.000 MHz	-40.000 MHz	300.000 kHz	6.80364 GHz	-31.22 dBm	-30.53 dB	-1.71 dB
-40.000 MHz	-21.000 MHz	300.000 kHz	6.80750 GHz	-28.84 dBm	-28.15 dB	-1.20 dB
-21.000 MHz	-20.000 MHz	300.000 kHz	6.82408 GHz	-24.02 dBm	-23.33 dB	-5.00 dB
20.000 MHz	21.000 MHz	300.000 kHz	6.86592 GHz	-24.30 dBm	-23.61 dB	-5.28 dB
21.000 MHz	40.000 MHz	300.000 kHz	6.88315 GHz	-29.66 dBm	-28.97 dB	-1.75 dB
40.000 MHz	60.000 MHz	300.000 kHz	6.88764 GHz	-32.49 dBm	-31.80 dB	-2.22 dB
60.000 MHz	80.000 MHz	300.000 kHz	6.90524 GHz	-47.05 dBm	-46.36 dB	-6.36 dB

Date: 8.NOV.2022 10:41:00

EUT Mode :	802.11ax HE80 Full RU

Plot on Channel 5985MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	5.86356 GHz	-43.48 dBm	-45.88 dB	-5.88 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	5.89172 GHz	-36.38 dBm	-38.78 dB	-6.80 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	5.92676 GHz	-26.64 dBm	-29.04 dB	-5.50 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	5.94417 GHz	-25.63 dBm	-28.03 dB	-11.36 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.02583 GHz	-23.43 dBm	-25.83 dB	-9.16 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.05130 GHz	-26.31 dBm	-28.71 dB	-3.52 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.06740 GHz	-30.45 dBm	-32.85 dB	-4.13 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.10612 GHz	-43.70 dBm	-46.10 dB	-6.10 dB

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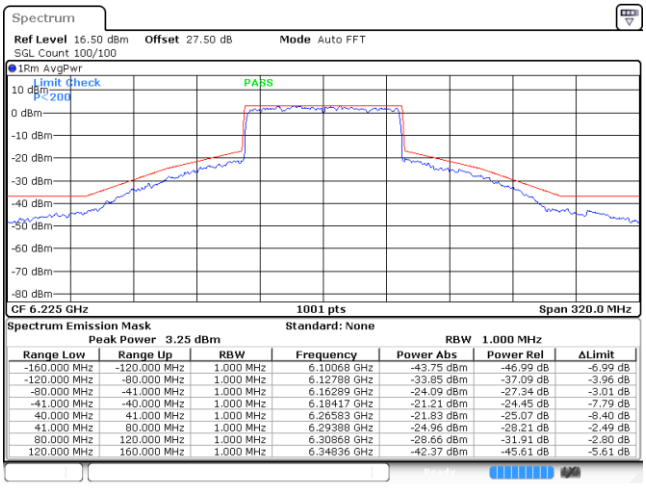
Plot on Channel 6225MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.10068 GHz	-43.75 dBm	-46.99 dB	-6.99 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.12788 GHz	-33.85 dBm	-37.09 dB	-3.96 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.16289 GHz	-24.09 dBm	-27.34 dB	-3.01 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.18417 GHz	-21.21 dBm	-24.45 dB	-7.79 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.26583 GHz	-21.83 dBm	-25.07 dB	-8.40 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.29388 GHz	-24.96 dBm	-28.21 dB	-2.49 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.30868 GHz	-28.66 dBm	-31.91 dB	-2.80 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.34836 GHz	-42.37 dBm	-45.61 dB	-5.61 dB

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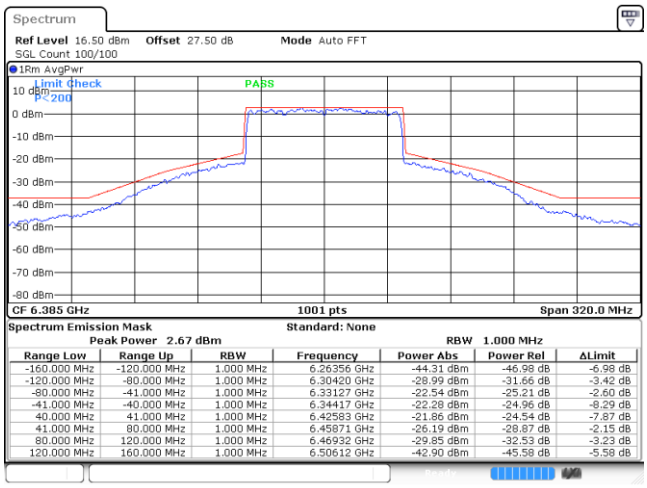
Plot on Channel 6385MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.26356 GHz	-44.31 dBm	-46.98 dB	-6.98 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.30420 GHz	-28.99 dBm	-31.66 dB	-3.42 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.33127 GHz	-22.54 dBm	-25.21 dB	-2.60 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.34417 GHz	-22.28 dBm	-24.96 dB	-8.29 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.42583 GHz	-21.86 dBm	-24.54 dB	-7.87 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.45871 GHz	-26.19 dBm	-28.87 dB	-2.15 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.46932 GHz	-29.85 dBm	-32.53 dB	-3.23 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.50612 GHz	-42.90 dBm	-45.58 dB	-5.58 dB

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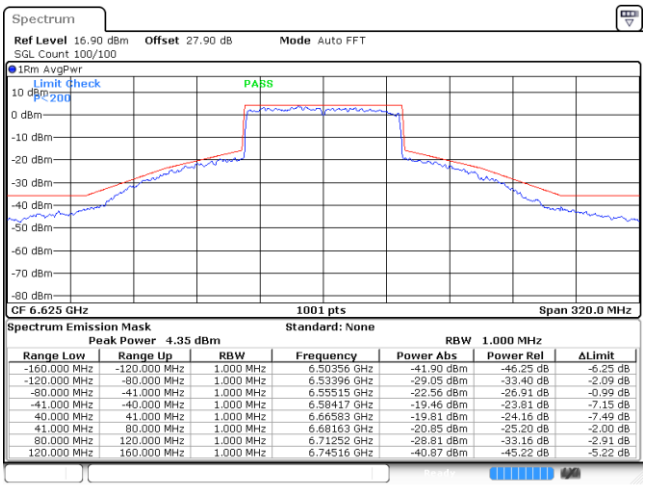
Plot on Channel 6625MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.50356 GHz	-41.90 dBm	-46.25 dB	-6.25 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.53396 GHz	-29.05 dBm	-33.40 dB	-2.09 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.55515 GHz	-22.56 dBm	-26.91 dB	-0.99 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.58417 GHz	-19.46 dBm	-23.81 dB	-7.15 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.66583 GHz	-19.81 dBm	-24.16 dB	-7.49 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.68163 GHz	-20.85 dBm	-25.20 dB	-2.00 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.71252 GHz	-28.81 dBm	-33.16 dB	-2.91 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.74516 GHz	-40.87 dBm	-45.22 dB	-5.22 dB

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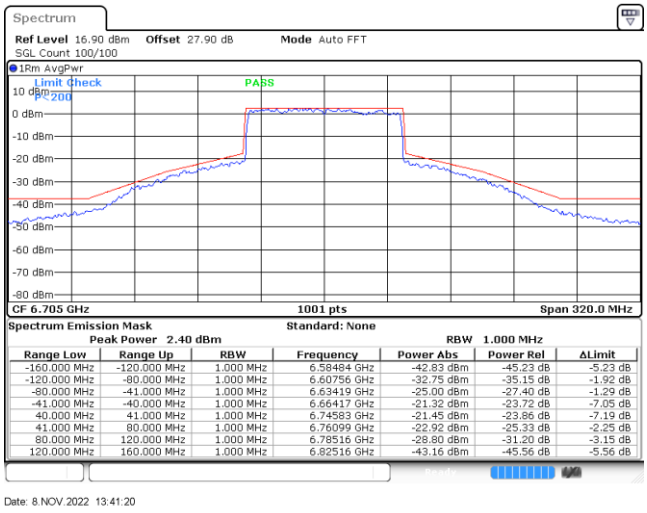
Plot on Channel 6705MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.58484 GHz	-42.83 dBm	-45.23 dB	-5.23 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.60756 GHz	-32.75 dBm	-35.15 dB	-1.92 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.63419 GHz	-25.00 dBm	-27.40 dB	-1.29 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.66417 GHz	-21.32 dBm	-23.72 dB	-7.05 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.74583 GHz	-21.45 dBm	-23.86 dB	-7.19 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.76099 GHz	-22.92 dBm	-25.33 dB	-2.25 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.78516 GHz	-28.80 dBm	-31.20 dB	-3.15 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.82516 GHz	-43.16 dBm	-45.56 dB	-5.56 dB

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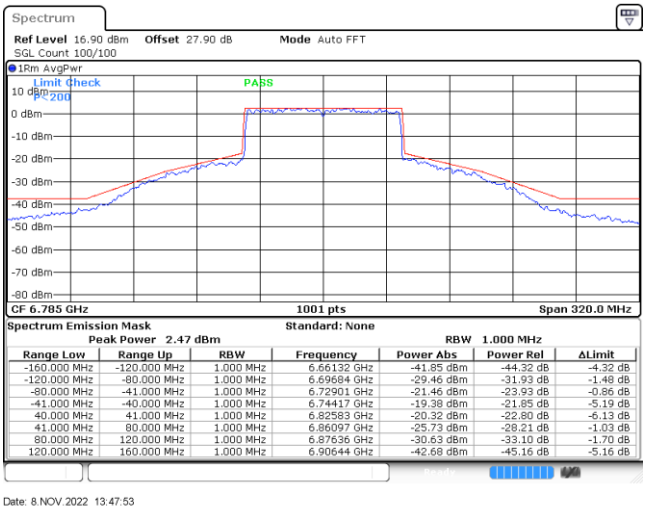
Plot on Channel 6785MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.66132 GHz	-41.85 dBm	-44.32 dB	-4.32 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.69684 GHz	-29.46 dBm	-31.93 dB	-1.48 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.72901 GHz	-21.46 dBm	-23.93 dB	-0.86 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.74417 GHz	-19.38 dBm	-21.85 dB	-5.19 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.82583 GHz	-20.32 dBm	-22.80 dB	-6.13 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.86097 GHz	-25.73 dBm	-28.21 dB	-1.03 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.87636 GHz	-30.63 dBm	-33.10 dB	-1.70 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.90644 GHz	-42.68 dBm	-45.16 dB	-5.16 dB

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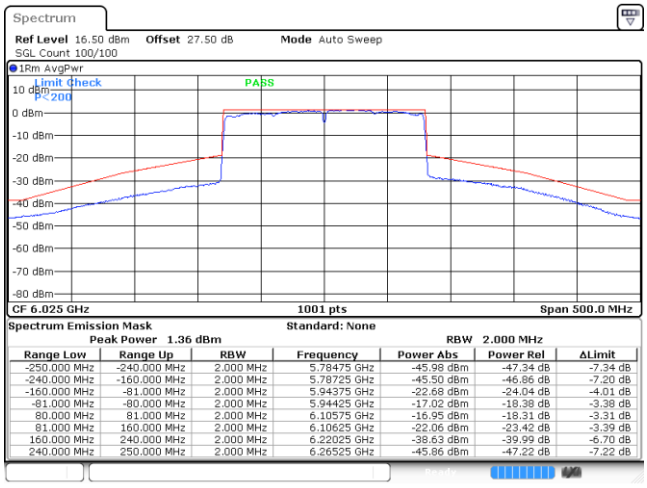
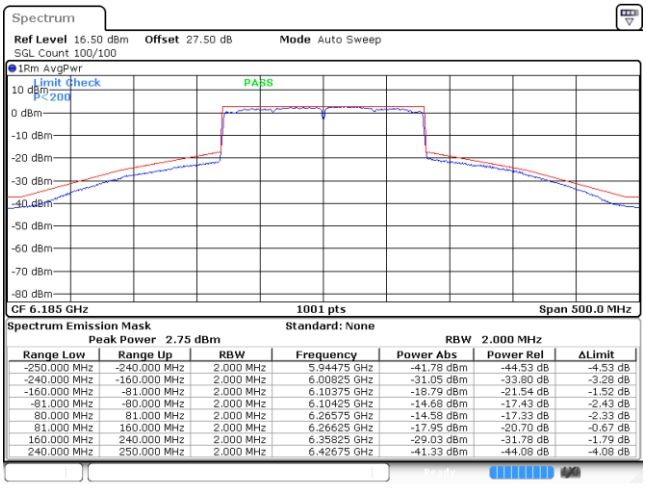
EUT Mode :	802.11ax HE160 Full RU

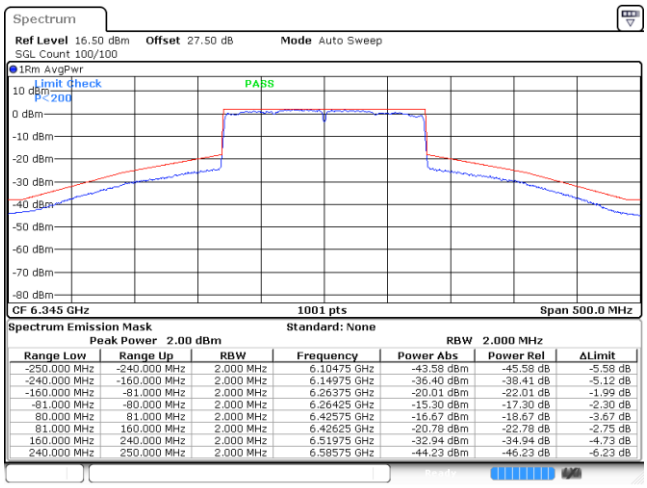
Plot on Channel 6025MHz



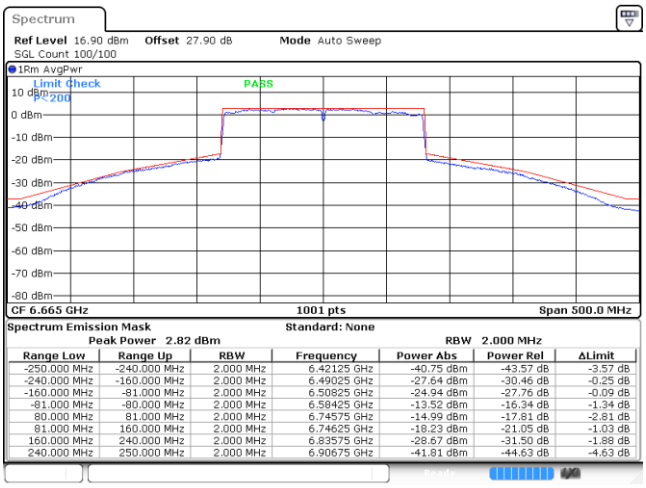
Plot on Channel 6185MHz



Plot on Channel 6345MHz



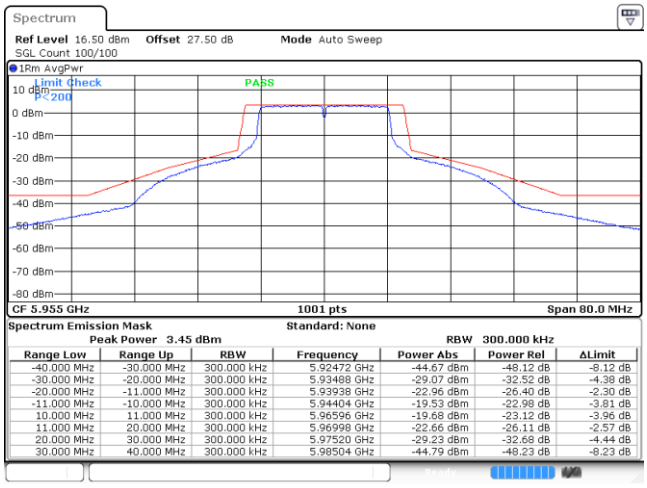
Plot on Channel 6665MHz



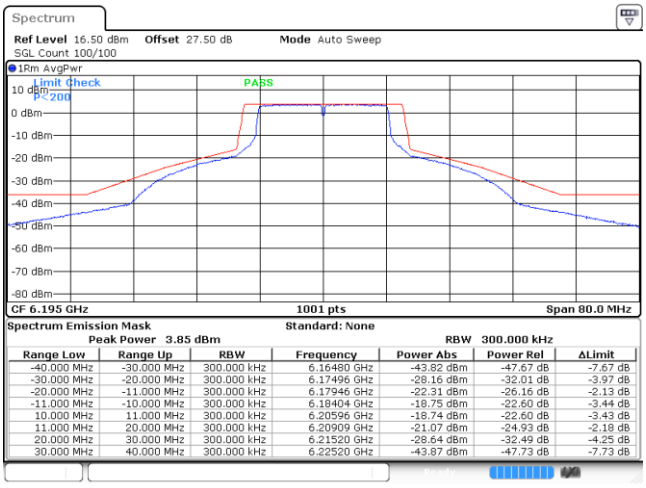
MIMO <Ant. 4+3(3)>

EUT Mode :	802.11a

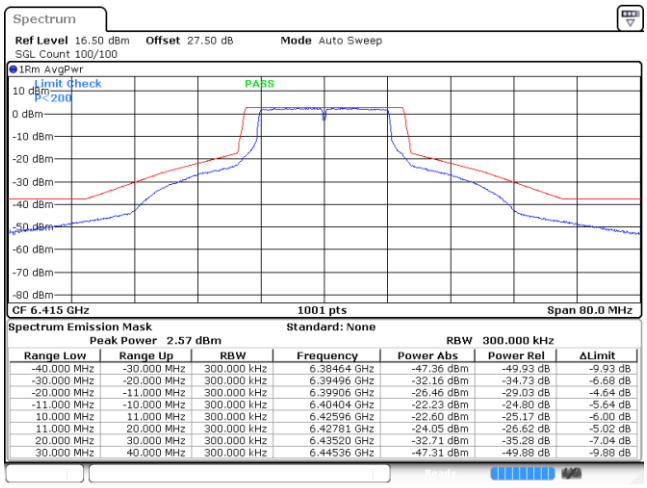
Plot on Channel 5955MHz



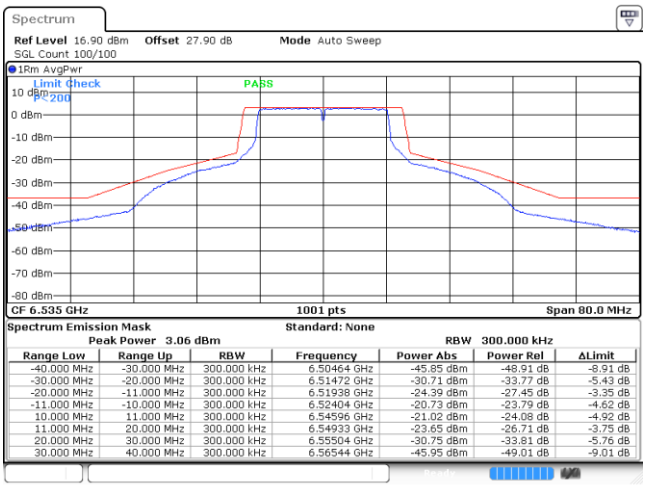
Plot on Channel 6195MHz



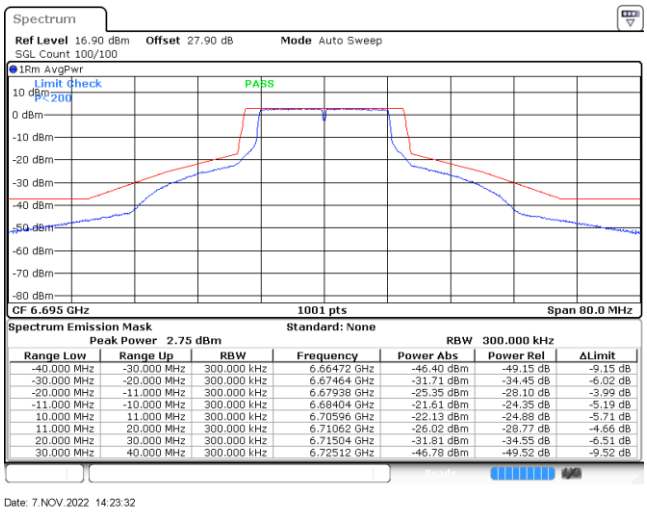
Plot on Channel 6415MHz



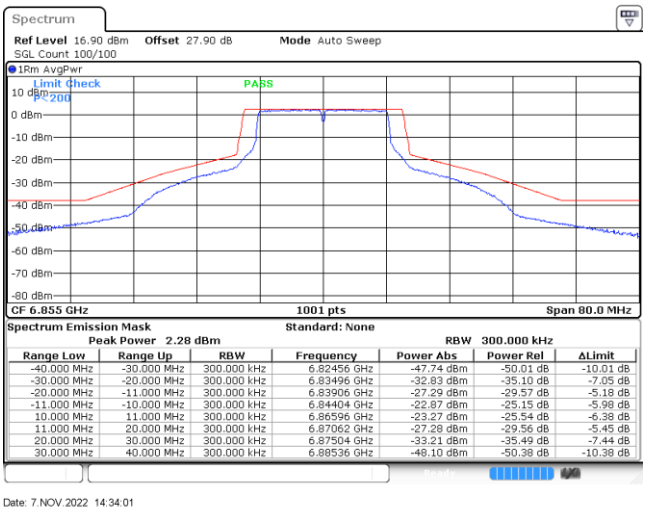
Plot on Channel 6535MHz



Plot on Channel 6695MHz

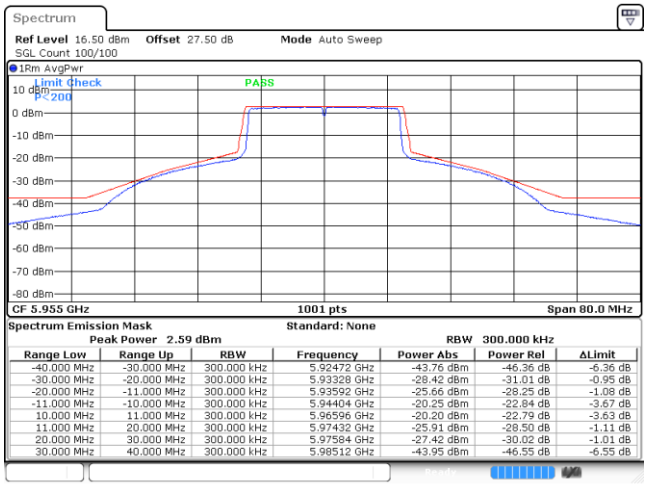


Plot on Channel 6855MHz



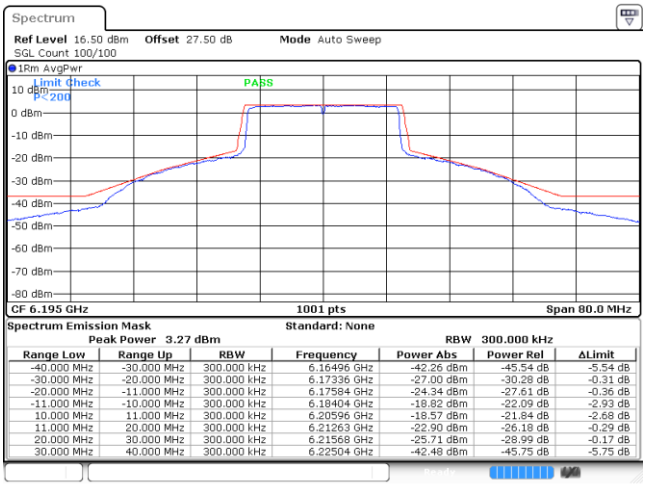
EUT Mode :	802.11ax HE20 Full RU

Plot on Channel 5955MHz



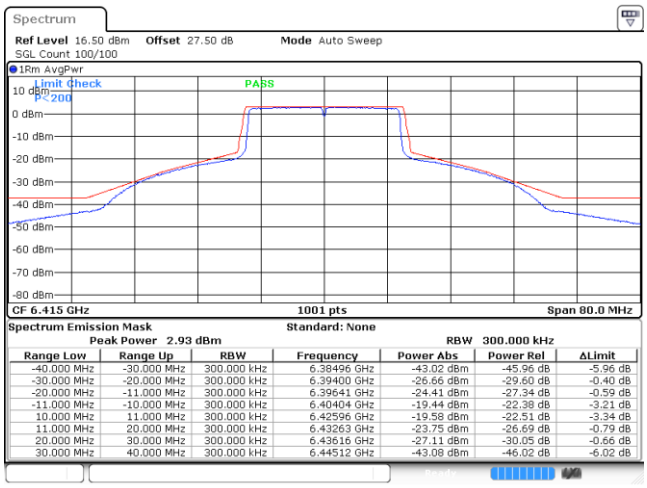
Date: 7.NOV.2022 16:32:43

Plot on Channel 6195MHz



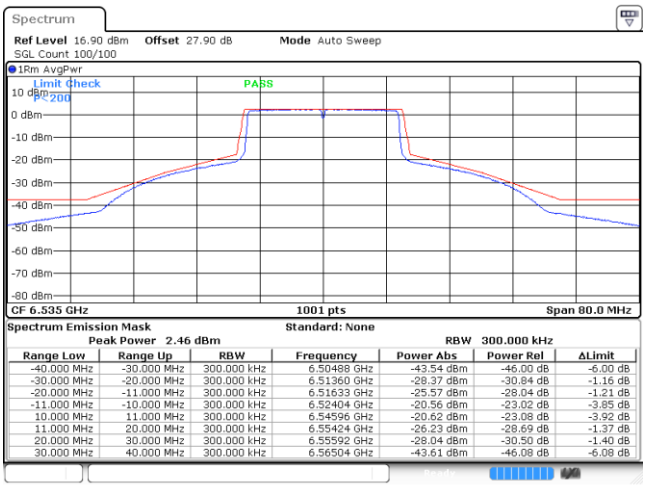
Date: 7.NOV.2022 16:49:17

Plot on Channel 6415MHz



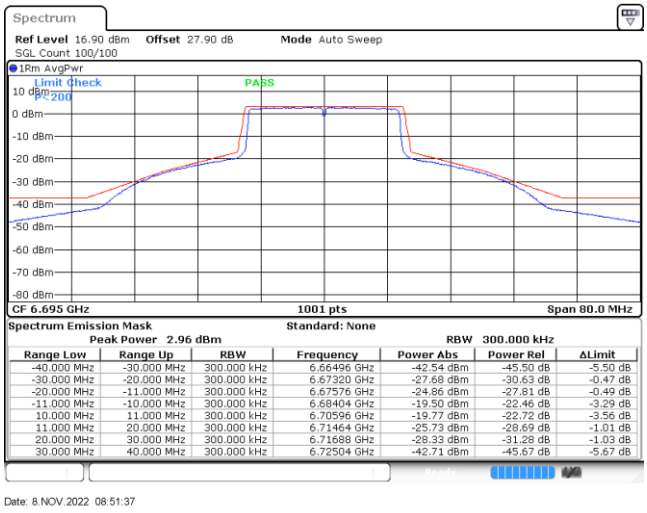
Date: 8.NOV.2022 08:20:46

Plot on Channel 6535MHz



Date: 8.NOV.2022 08:34:39

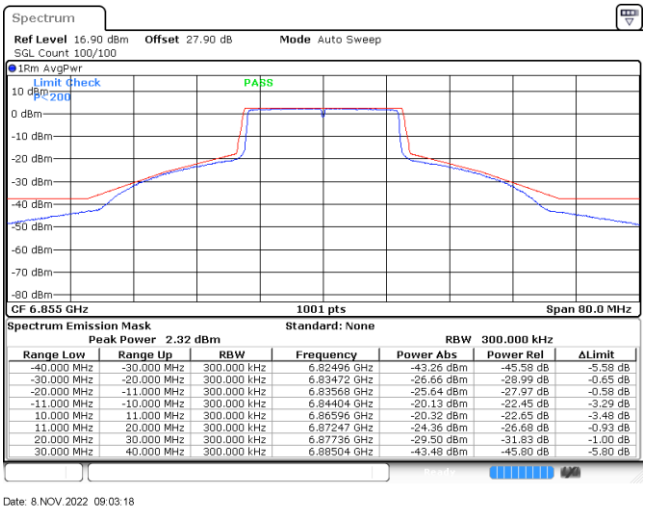
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66496 GHz	-42.54 dBm	-45.50 dB	-5.50 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.67320 GHz	-27.68 dBm	-30.63 dB	-0.47 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.67576 GHz	-24.86 dBm	-27.81 dB	-0.49 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-19.50 dBm	-22.46 dB	-3.29 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-19.77 dBm	-22.72 dB	-3.56 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.71464 GHz	-25.73 dBm	-28.69 dB	-1.01 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.71688 GHz	-28.33 dBm	-31.28 dB	-1.03 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72504 GHz	-42.71 dBm	-45.67 dB	-5.67 dB

Date: 8.NOV.2022 08:51:37

Plot on Channel 6855MHz

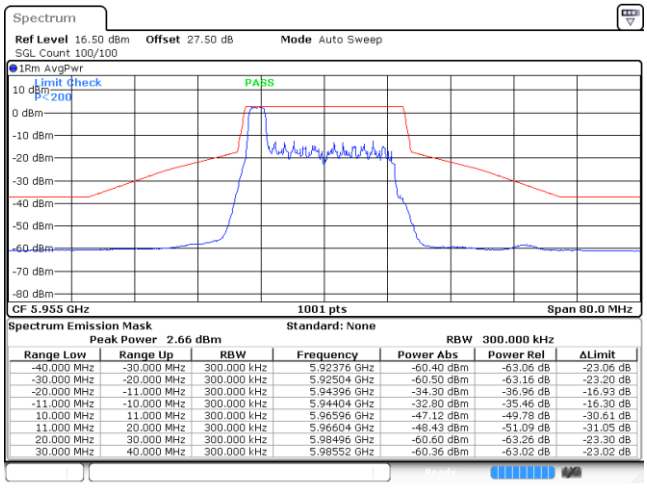


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82496 GHz	-43.26 dBm	-45.58 dB	-5.58 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.83472 GHz	-26.66 dBm	-28.99 dB	-0.65 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.83568 GHz	-25.64 dBm	-27.97 dB	-0.58 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-20.13 dBm	-22.45 dB	-3.29 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-20.32 dBm	-22.65 dB	-3.48 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.87247 GHz	-24.36 dBm	-26.68 dB	-0.93 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.87736 GHz	-29.50 dBm	-31.83 dB	-1.00 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88504 GHz	-43.48 dBm	-45.80 dB	-5.80 dB

Date: 8.NOV.2022 09:03:18

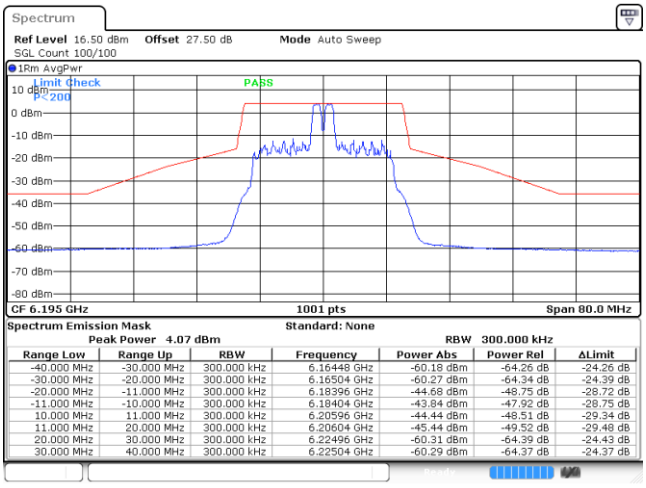
EUT Mode :	802.11ax HE20 26RU

Plot on Channel 5955MHz



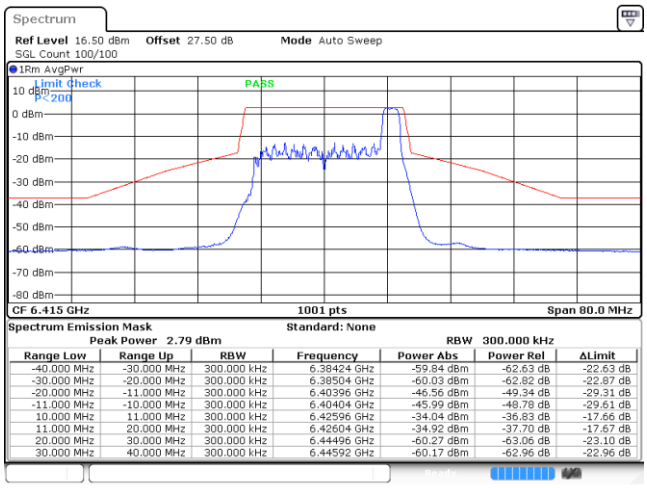
Date: 8.NOV.2022 15:53:32

Plot on Channel 6195MHz



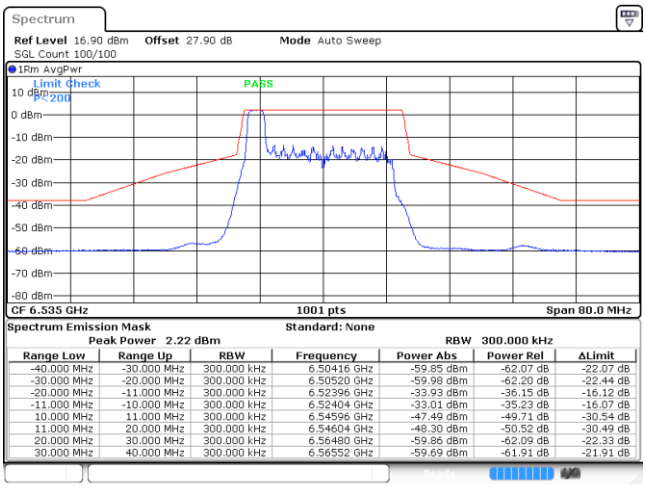
Date: 8.NOV.2022 16:28:59

Plot on Channel 6415MHz



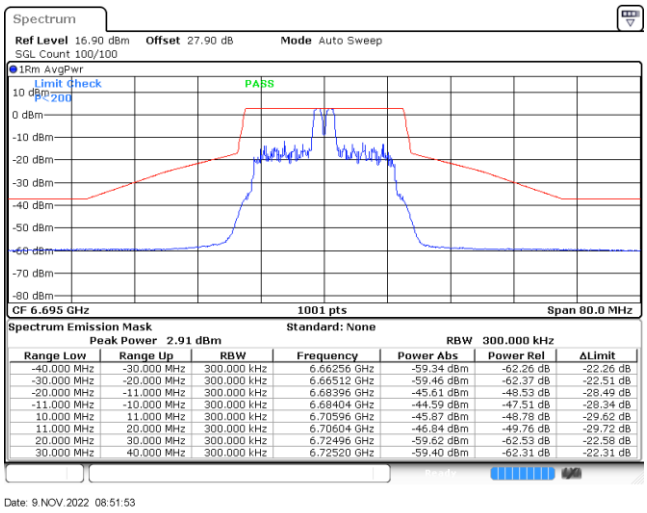
Date: 8.NOV.2022 16:57:24

Plot on Channel 6535MHz



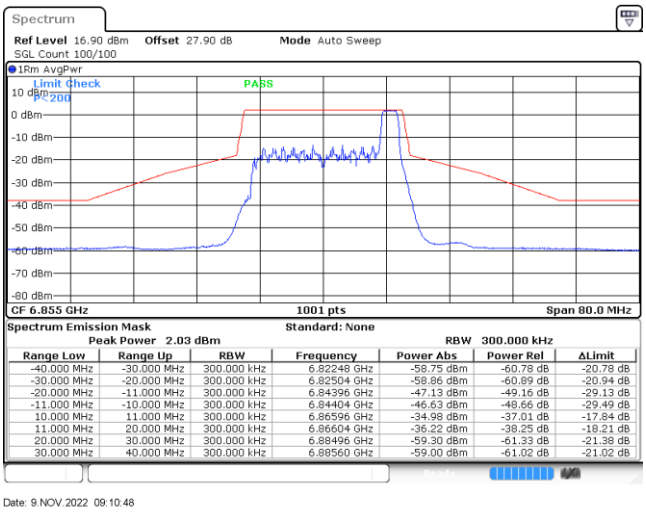
Date: 9.NOV.2022 08:32:51

Plot on Channel 6695MHz



Date: 9.NOV.2022 08:51:53

Plot on Channel 6855MHz



Date: 9.NOV.2022 09:10:48